



Table III

Table III: Human telomerase reverse transcriptase (TERT) Hammerhead Ribozyme and Target Sequence

nt. Position	Ribozyme Sequence	Seq ID Nos.	Substrate Sequence	Seq ID Nos.
13	CGCAGCGAG CUGAUGAG GCGGUUAGGCG CGAA ACCGAGCG	2730	CGCUGCGU C CUGCUGCG	1
68	GCAGGGGG CUGAUGAG GCGGUUAGGCG CGAA AGGGGGCG	2731	CGCGCGGU C CGCGCGCG	2
90	GCAGCGAG CUGAUGAG GCGGUUAGGCG CGAA AGCGCGCG	2732	CGUGCGGU C CGUGCGCG	3
108	CCUCCGGG CUGAUGAG GCGGUUAGGCG CGAA AGUGGGCG	2733	CAGCCACU A CGCGAGGG	4
135	GCGCGCGG CUGAUGAG GCGGUUAGGCG CGAA AGCGGGCG	2734	GCGCGCGU U CGUGCGCG	5
136	GCGCGCGG CUGAUGAG GCGGUUAGGCG CGAA AAGGGGGCG	2735	GCGAAGGU U CGGGGGCG	6
194	GCGCGCGG CUGAUGAG GCGGUUAGGCG CGAA AGGGGGCG	2736	GCGCGCGU U CGCGCGCG	7
195	GCGCGCGG CUGAUGAG GCGGUUAGGCG CGAA AAGGGGGCG	2737	GCGCGCGU U CGCGCGCG	8
196	AAGGCGCG CUGAUGAG GCGGUUAGGCG CGAA AAGGCGCG	2738	GCGCGCGU U CGCGCGCG	9
264	GCGCGCGG CUGAUGAG GCGGUUAGGCG CGAA AGGGGGCG	2739	GCGCGCGU U CGCGCGCG	10
265	CGCGCGCG CUGAUGAG GCGGUUAGGCG CGAA AGGAGGGCG	2740	GCGCGCGU U CGCGCGAG	11
266	AAGGCGCG CUGAUGAG GCGGUUAGGCG CGAA AAGGAGGGCG	2741	GCGCGCGU U CGCGCGGU	12
279	UAGGCGAG CUGAUGAG GCGGUUAGGCG CGAA ACACCGCG	2742	CGAGGCGU U CGGGCGA	13
351	UAAAGCGG CUGAUGAG GCGGUUAGGCG CGAA AGGCGCG	2743	GCGGGCGU U CGGGCGCG	14
352	GCGAAGCG CUGAUGAG GCGGUUAGGCG CGAA AAGGGCG	2744	GCGCGCGU U CGGGCGCG	15
353	GCGCGCGG CUGAUGAG GCGGUUAGGCG CGAA AGGGCGCG	2745	GCGCGCGU U CGGGCGCG	16
354	AAGGCGCG CUGAUGAG GCGGUUAGGCG CGAA AAGGCGAA	2746	GCGCGCGU U CGCGCGU	17
394	UAGGCGCG CUGAUGAG GCGGUUAGGCG CGAA AGGGCGCG	2747	CGAGGCGU U CGACACCGA	18
400	CGCGCGCG CUGAUGAG GCGGUUAGGCG CGAA AAGGGCG	2748	GAGGGCGU U ACCACCGA	19
420	CGCGCGCG CUGAUGAG GCGGUUAGGCG CGAA AGCGCGCG	2749	GCGCGCGU A CGUGCGCA	20
505	AATAGCGG CUGAUGAG GCGGUUAGGCG CGAA ACACCGAC	2750	GCGCGCGU U CGACUGGU	21
506	TAAGCGGU CUGAUGAG GCGGUUAGGCG CGAA AACCGCGA	2751	GCGCGCGU U ACGUGCG	22
520	AACACACA CUGAUGAG GCGGUUAGGCG CGAA AGGGCGCA	2752	GCGCGCGU U CGGGCGGU	23
531	CGACACACA CUGAUGAG GCGGUUAGGCG CGAA AGAGCGCG	2753	GCGCGCGU U CGGGCGCG	24
532	ACGACACA CUGAUGAG GCGGUUAGGCG CGAA AAAGCGCG	2754	GCGCGCGU U CGGGCGGU	25
541	CGAGCGGG CUGAUGAG GCGGUUAGGCG CGAA AGCGACCA	2755	GCGCGCGU U CGAGCGCG	26
553	ACACCGGG CUGAUGAG GCGGUUAGGCG CGAA AGGGCGCA	2756	GCGCGCGU A CGAGCGU	27
581	CGAGCGGG CUGAUGAG GCGGUUAGGCG CGAA ACACCGCG	2757	GCGCGCGU A CGAGCGCG	28
582	CGACACCG CUGAUGAG GCGGUUAGGCG CGAA AGCGGGCA	2758	GACACCGU C CGGGCGCG	29
601	CGCGCGCG CUGAUGAG GCGGUUAGGCG CGAA AGGGGGCG	2759	GCGCGCGU C AGGGGGCG	30
620	CGCGCGCG CUGAUGAG GCGGUUAGGCG CGAA AGGGGGCG	2761	CGACACCGU A CGGGGGCG	31
644	CGACACCG CUGAUGAG GCGGUUAGGCG CGAA AGCGGGCG	2761	CGAAGCGU C CGGGGGCG	32
671	CGACACCG CUGAUGAG GCGGUUAGGCG CGAA ACGGGGGCG	2761	CGAAACAU A CGGGCGAG	33
676	GCGCGCGU CUGAUGAG GCGGUUAGGCG CGAA AGGGGGCG	2764	CAUACCGU C AGGGGGCG	34
691	CGACACCG CUGAUGAG GCGGUUAGGCG CGAA ACCCGGGCG	2764	GCGCGCGU C CGGGGGCG	35
749	CAACCGCA CUGAUGAG GCGGUUAGGCG CGAA ACCUCCCG	2765	GCGCGCGU C CGGGGGCG	36
756	UAGGCGCG CUGAUGAG GCGGUUAGGCG CGAA AGGGCGCA	2766	UAGGCGGU U CGCGCGAA	37
763	CGCGCGCG CUGAUGAG GCGGUUAGGCG CGAA AGGGGGCG	2767	AAGGGCGU U CGGGGGCG	38
819	GGGCGCG CUGAUGAG GCGGUUAGGCG CGAA AGGGGGCG	2768	CGAGGGGU C CGGGGGCG	39
863	ACACACAG CUGAUGAG GCGGUUAGGCG CGAA ACCACCGU	2769	ACGUGGGU U CGCGCGUG	40
864	CGACACACA CUGAUGAG GCGGUUAGGCG CGAA AAAACCGA	2770	CGUGGGGU U CGGGGGCG	41
865	ACACACACA CUGAUGAG GCGGUUAGGCG CGAA AAAACCGA	2771	CGUGGGGU U CGGGGGGU	42
876	UGGGCGGU CUGAUGAG GCGGUUAGGCG CGAA ACACCCACA	2772	UGGGGGGU C ACCUGCCA	43

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906	CCUCCAAA CUGAUGAG GCGGUUAGGC CGAA AGGUGGCU	2823	AGCCACCU C UUUGGAGG	44
908	ACCCUCCA CUGAUGAG GCGGUUAGGC CGAA AGAGGUGU	2824	CCACCUCCU U UGGAGGGU	45
909	CAACCUCCU CUGAUGAG GCGGUUAGGC CGAA AAAGGGUG	2825	CAACCUCCU U UGGAGGGU	46
910	GGGGAGAG CUGAUGAG GCGGUUAGGC CGAA AGGGGACU	2826	GGGGAGAGU C UGGGGAC	47
911	GGGGGGCA CUGAUGAG GCGGUUAGGC CGAA AGAGGCGA	2827	GGGGGGCAU C UGGGGAC	48
912	AUGGGUGG CUGAUGAG GCGGUUAGGC CGAA AGGGGCGU	2828	GGGGGGCAU C CGACCCAU	49
913	GGGGGACG CUGAUGAG GCGGUUAGGC CGAA AUUGGGCG	2829	GGGGGGCAU C CGUGGGCG	50
914	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AUUGGGCG	2830	GGGGGGCAU C CGACCCAU	51
915	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AUUGGGCG	2831	GGGGGGCGAU C CGGGGGAC	52
1001	GUCCACGG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2832	GUCCACGGU C CGGGGGAC	53
1016	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2833	GGGGGGCGU U GUCCGGCG	54
1019	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2834	GGGGGGCGU C CGGGGGCG	55
1029	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2835	GGGGGGCGU A CGGGGGAG	56
1047	AGGAGAG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2836	AGGAGAGU U CGGGGGAG	57
1048	AGGAGAG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2837	AGGAGAGU C CGGGGGAC	58
1049	AGGAGAG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2838	AGGAGAGU C UGGGGCG	59
1053	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2839	GGGGGGCGU A CGGGGGAG	60
1056	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2840	GGGGGGCGU C CGGGGGCG	61
1057	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2841	GGGGGGCGU C AGGGGACA	62
1064	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2842	GGGGGGCGU C CGGGGGAC	63
1089	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2843	GGGGGGCGU U CGGGGGAC	64
1091	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2844	GGGGGGCGU C CGGGGGAG	65
1092	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2845	GGGGGGCGU A CGGGGGAC	66
1097	AGGAGAGU CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2846	AGGAGAGU C AGGGGGCG	67
1101	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2847	GGGGGGCGU C CGGGGGCG	68
1102	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2848	GGGGGGCGU C CGGGGGCG	69
1121	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2849	GGGGGGCGU C CGGGGGCG	70
1125	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2850	GGGGGGCGU C CGGGGGAC	71
1147	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2851	GGGGGGCGU U CGGGGGCG	72
1148	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2852	GGGGGGCGU U CGGGGGCG	73
1150	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2853	GGGGGGCGU U CGGGGGCG	74
1151	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2854	GGGGGGCGU U CGGGGGCG	75
1152	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2855	GGGGGGCGU U CGGGGGCG	76
1153	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2856	GGGGGGCGU C CGGGGGCG	77
1154	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2857	GGGGGGCGU C CGGGGGCG	78
1155	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2858	GGGGGGCGU U CGGGGGCG	79
1156	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2859	GGGGGGCGU A CGGGGGCG	80
1157	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2860	GGGGGGCGU U CGGGGGCG	81
1158	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2861	GGGGGGCGU U CGGGGGCG	82
1159	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2862	GGGGGGCGU C CGGGGGCG	83
1160	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2863	GGGGGGCGU U CGGGGGCG	84
1161	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2864	GGGGGGCGU A CGGGGGCG	85
1171	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2865	GGGGGGCGU C CGGGGGCG	86
1172	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2866	GGGGGGCGU C CGGGGGCG	87
1173	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2867	GGGGGGCGU C CGGGGGCG	88
1174	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2868	GGGGGGCGU C CGGGGGCG	89
1175	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA AGGGGCG	2869	GGGGGGCGU C CGGGGGCG	90

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1394	CAACAGGC CUGAUGAG GCGGUUAGGC CGAA AGGGGGU	2870	ACCCCCGU C GCCUGGUG	91
1411	UGGUGGGG CUGAUGAG GCGGUUAGGC CGAA AGCAGGUG	2871	CAGCUGGU C CGCCAGCA	92
1440	CGAAGCGG CUGAUGAG GCGGUUAGGC CGAA ACACCCUGC	2872	GCAGGUGU A CGGTJJCG	93
1446	CGCGGACG CUGAUGAG GCGGUUAGGC CGAA AGCGGJAC	2873	GTAACGGGU U CGUJGCGG	94
1447	GCGCGCAC CUGAUGAG GCGGUUAGGC CGAA AAACCGUA	2874	TAACGGGU U GUGGGGGC	95
1486	GAGGCGCA CUGAUGAG GCGGUUAGGC CGAA AGGGCGGG	2875	CCAGGCGU C UGGGGGU	96
1494	UUGGGCGG CUGAUGAG GCGGUUAGGC CGAA AGGGCGAG	2876	CGGGGGGU U CAGGCACA	97
1515	UUCUCAAA CUGAUGAG GCGGUUAGGC CGAA AGGGGGGU	2877	ACGGCGU U CCUCAGGA	98
1516	UUCGGGAG CUGAUGAG GCGGUUAGGC CGAA AGGGGGCG	2878	CGGCGGU U CUCAGGAA	99
1519	GUGGUUCC CUGAUGAG GCGGUUAGGC CGAA A GAAAGCG	2879	CGGUGGU C AGGAACAC	100
1536	GGGAGAGG CUGAUGAG GCGGUUAGGC CGAA AGGCGGCG	2880	CAAAGGU U CAUCGGC	101
1537	AGGGAGAG CUGAUGAG GCGGUUAGGC CGAA AAUCCUCCU	2881	AAUAGGU U AUUCCGU	102
1540	CGGAGGCA CUGAUGAG GCGGUUAGGC CGAA AUUACUCCU	2882	AAUUCGU U UUCCUCCG	103
1542	UCGGGAGG CUGAUGAG GCGGUUAGGC CGAA AGAUAGAC	2883	UUCUACGU U CUGGGGGA	104
1564	UGGAGGCA CUGAUGAG GCGGUUAGGC CGAA AGGUGGGC	2884	GGCAAGGU C UGGUGGA	105
1566	CGGAGGAG CUGAUGAG GCGGUUAGGC CGAA AGAUCUUG	2885	CAAGGUU C CGUUCAGG	106
1610	CGGGGAGG CUGAUGAG GCGGUUAGGC CGAA AGCGCGAU	2886	A UGGGUU U CGUUCGCG	107
1633	AACAGGGG CUGAUGAG GCGGUUAGGC CGAA AGGGCGGG	2887	CGAAGGUU U CGGUUGGU	108
1642	CGGGGGGG CUGAUGAG GCGGUUAGGC CGAA ACACAGGC	2888	CGGUGGU U CGGGCGCG	109
1647	UCGGGAGG CUGAUGAG GCGGUUAGGC CGAA AACACAGC	2889	GGGGGUU C CGGGCGCA	110
1661	CGACAGCA CUGAUGAG GCGGUUAGGC CGAA AGGGUGGU	2890	ACGACGUU C UGGUGAG	111
1679	UUGGGCGG CUGAUGAG GCGGUUAGGC CGAA AUUCCGU	2891	GGGGAGAU C UUUCGAA	112
1686	AUUCGAGG CUGAUGAG GCGGUUAGGC CGAA AUUUCGGC	2892	GGGCAAGU U CGUGCGAU	113
1687	CAUGGCGAG CUGAUGAG GCGGUUAGGC CGAA AAUUCGGC	2893	GGGAAAGU U CGUGACUG	114
1710	CGACAGCG CUGAUGAG GCGGUUAGGC CGAA ACACACUC	2894	GAUGGUGU A CGUGGU	115
1714	AGCGUACG CUGAUGAG GCGGUUAGGC CGAA AGGUACAC	2895	GGGUAGGU C GUGGAGGU	116
1717	AGUACGUU CUGAUGAG GCGGUUAGGC CGAA AGGAGGUA	2896	UACGUU C GAGGUGGU	117
1726	AAAAGGGU CUGAUGAG GCGGUUAGGC CGAA AGGAGGU	2897	GGGGGUU C AGGUUCCU	118
1731	AAAAGAAA CUGAUGAG GCGGUUAGGC CGAA AGGUAGGC	2898	GGGGAGGU C UUUCUCCU	119
1733	AUAAAGAA CUGAUGAG GCGGUUAGGC CGAA AGAGCGUA	2899	UAGGUU U UUUCUCCAU	120
1734	CAUAAAAG CUGAUGAG GCGGUUAGGC CGAA AAGACCGU	2900	CAACGUU U UUUCUAG	121
1735	AUAAAGAA CUGAUGAG GCGGUUAGGC CGAA AAAGACGU	2901	AGGUUCCU C UUUCUAGU	122
1737	UGACAAAG CUGAUGAG GCGGUUAGGC CGAA AGAAAAGC	2902	GGGUCGUU U UUACGUCA	123
1738	GUAGACAA CUGAUGAG GCGGUUAGGC CGAA AAGAAAAG	2903	GGGUCGUU U UUACGUAC	124
1739	CGUGACAG CUGAUGAG GCGGUUAGGC CGAA AAAAGAAA	2904	GGGGUCGUU U AUUCCACG	125
1740	CGGUGACG CUGAUGAG GCGGUUAGGC CGAA AAAAGAAA	2905	GGGGUCGUU A UUUCACCG	126
1744	GGUUCGUU CUGAUGAG GCGGUUAGGC CGAA ACACAAAA	2906	GGGGUAGU C AGGGAGAC	127
1758	UUCUUCGA CUGAUGAG GCGGUUAGGC CGAA AGGGGGUC	2907	GGGGAGGU U UCAAAAGA	128
1759	UUCUUCGU CUGAUGAG GCGGUUAGGC CGAA AACGGGGU	2908	AGGAGGUU U CAAAAGAA	129
1760	GUUCUUCGU CUGAUGAG GCGGUUAGGC CGAA AAAAGUGG	2909	GGGGGUU C AAAAGAAC	130
1774	UAGAAAAG CUGAUGAG GCGGUUAGGC CGAA AGGGCGGU	2910	AGACGGGU C UUUCUCCUA	131
1776	GGUAGAAA CUGAUGAG GCGGUUAGGC CGAA AAGAGCGU	2911	GGGGGUU U UUUCUCCAC	132
1777	GGGUAGAA CUGAUGAG GCGGUUAGGC CGAA AAGAGGU	2912	AGGGUCGUU U UUUCUACCG	133
1778	CGGGUAGA CUGAUGAG GCGGUUAGGC CGAA AAAAGACG	2913	GGGGUCGUU U UUACACCGG	134
1779	UGGGGGAG CUGAUGAG GCGGUUAGGC CGAA AAAAGAGC	2914	GGGGUAGGU U UUACCGGA	135
1780	UUCGGGUA CUGAUGAG GCGGUUAGGC CGAA AAAAGAGG	2915	GGGGUAGGU U UACCGGAA	136
1782	UCUUCGGG CUGAUGAG GCGGUUAGGC CGAA AGAAAAAG	2916	GGGGUAGGU A CGGGAAAGA	137

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1795	UUGCUCCA CUGAUGAG GCGGUUAGGC CGAA ACACUCUU	2917	AAGAGUGU C UGGAGCAA	138
1806	UGCUJUGU CUGAUGAG GCGGUUAGGC CGAA ACUJUGCUC	2918	GAGGJANGU U GCAAAGCA	139
1816	CUGAUUCC CUGAUGAG GCGGUUAGGC CGAA AJGUUJUG	2919	CAAAGCAU U GGAUUCAG	140
1822	UGGUJGUU CUGAUGAG GCGGUUAGGC CGAA AJGUCCAU	2920	AUJGUAAU C AGACAGCA	141
1823	CCUCUCUC CUGAUGAG GCGGUUAGGC CGAA AGUCUGU	2921	ACAGACAU U GAAGAGGG	142
1860	CUGGUUCC CUGAUGAG GCGGUUAGGC CGAA ACAGCUCC	2922	GGAGGUU C GGAAGCAG	143
1863	UGGUUCGU CUGAUGAG GCGGUUAGGC CGAA ACGUCUGC	2923	GCAGAGGU C ASGCAGCA	144
1882	GGGUUCDC CUGAUGAG GCGGUUAGGC CGAA AJGUUGDC	2924	GGAGACAU C GGGAAAGCC	145
1911	GGAGUCUG CUGAUGAG GCGGUUAGGC CGAA AGGUCAAC	2925	GGAGAGGU C GAGACUCC	146
1918	AUGAAGCG CUGAUGAG GCGGUUAGGC CGAA AGGUJUGGA	2926	GGAGACAU C GGUUCAU	147
1923	UGGGGUAG CUGAUGAG GCGGUUAGGC CGAA AGCGGAGU	2927	AUJGUUCU U GAGGCCAA	148
1974	UGGGGGAG CUGAUGAG GCGGUUAGGC CGAA AAGGGAGA	2928	JUGGUJGU C ACGGCCAA	149
1977	GGGUJGUU CUGAUGAG GCGGUUAGGC CGAA AJGUAGCG	2929	GGGUUCAU C GCGAAGCC	150
1984	AUGGUUCU CUGAUGAG GCGGUUAGGC CGAA AJGUCCCG	2930	GGGGAGAU U GUGAACAU	151
1968	GGAGCGAG CUGAUGAG GCGGUUAGGC CGAA ACGUCCUG	2931	GAUGGACU A GGUJUGGG	152
1970	GGGUCCAT CUGAUGAG GCGGUUAGGC CGAA AGGUACGU	2932	GAUUAAGU C GUGGGAGC	153
1989	JUGGUJGU CUGAUGAG GCGGUUAGGC CGAA AJGUJUGG	2933	GGAGAGGU U CGCGAGAG	154
1990	UGGUUCGG CUGAUGAG GCGGUUAGGC CGAA AACUJGUU	2934	AGAGGUU C CGCGAGAGA	155
2015	GGAGGUCA CUGAUGAG GCGGUUAGGC CGAA AGGUJUGG	2935	GGAGAGGU C UGACUCUG	156
2017	GGGGGGGU CUGAUGAG GCGGUUAGGC CGAA AGGUJUGG	2936	GGGUUCU C ACGUUGAG	157
2031	GGGGGUUC CUGAUGAG GCGGUUAGGC CGAA AGGUAGGA	2937	UGGUACAU C GAGGGJUGA	158
2040	GGAGGUUG CUGAUGAG GCGGUUAGGC CGAA AGGUJUGG	2938	GGGUJGU U GAGGUUGG	159
2041	AGCAUCGU CUGAUGAG GCGGUUAGGC CGAA AACAGUGU	2939	GGAGGUU C AGCGGUUJ	160
2050	JUGGUJGU CUGAUGAG GCGGUUAGGC CGAA AGGUACGU	2940	AGGUJGUU C AACUACGA	161
2055	GGGGGUUG CUGAUGAG GCGGUUAGGC CGAA AGGUJUGG	2941	GGUACACU A CGAGCGGG	162
2060	GGGGGGAG CUGAUGAG GCGGUUAGGC CGAA AGGGGGGG	2942	GGGGGUU C GUGGGGGC	163
2091	GGAGACAU CUGAUGAG GCGGUUAGGC CGAA AGGGGGCC	2943	GGGGGUU C UGUUCUGG	164
2111	GGGGGGAG CUGAUGAG GCGGUUAGGC CGAA AGGUCCAU	2944	GGAGAGAU A UGACACAGG	165
2113	GGGGGGUG CUGAUGAG GCGGUUAGGC CGAA AUAUUCGU	2945	GAUGGUAU C CACAGGGG	166
2132	GGAGGUAG CUGAUGAG GCGGUUAGGC CGAA AGGGGGCC	2946	GGGGACAU U CGGGGUUG	167
2134	GGAGGUAT CUGAUGAG GCGGUUAGGC CGAA AAAGGUUG	2947	GGGGGUU C GUGGGGGG	168
2175	UGACAAAG CUGAUGAG GCGGUUAGGC CGAA AACGUUCA	2948	GGAGGUU A CGGUJUGA	169
2178	GGGUACAU CUGAUGAG GCGGUUAGGC CGAA AGGUACGU	2949	GGGUACU U UGUCAAGG	170
2179	AGGUJGUAC CUGAUGAG GCGGUUAGGC CGAA AGGUACAG	2950	GGGUACGU U GCGAAGGU	171
2183	JUGGUJGU CUGAUGAG GCGGUUAGGC CGAA AACAAAGUA	2951	GGGUJGUU C AAGGGGGA	172
2205	GGGGGGUG CUGAUGAG GCGGUUAGGC CGAA AGGGGGCC	2952	GGGGGGGU A CGACACCA	173
2215	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA AGGUUGGU	2953	GGACACAU C CGCGAGGA	174
2230	AGGUUCGU CUGAUGAG GCGGUUAGGC CGAA AGGUUGGU	2954	GGACACAU C AGGGAGGU	175
2239	GGGGGGGU CUGAUGAG GCGGUUAGGC CGAA AGGUUGGU	2955	AGGGAGGU C AGGGGGAG	176
2243	AUGGUUGG CUGAUGAG GCGGUUAGGC CGAA AGGUACGU	2956	GGGGGUU C CGCGACAU	177
2251	GGGUUCAU CUGAUGAG GCGGUUAGGC CGAA AGGUUGGU	2957	GGGGGUU C AUCAAACG	178
2254	GGGGGGUU CUGAUGAG GCGGUUAGGC CGAA AGGUACGU	2958	GGCAACAU C AAACCCCCA	179
2271	GGAGGUAG CUGAUGAG GCGGUUAGGC CGAA AGGUUGGU	2959	GAACACAU A CGGGGUUG	180
2282	GGCAUACG CUGAUGAG GCGGUUAGGC CGAA AGGGACGG	2960	GGGGGGGU C GGUAGGG	181
2286	GGACGGCA CUGAUGAG GCGGUUAGGC CGAA AGGGACGG	2961	GGGUUCGU A UGGGGGGG	182
2296	GGGUUCUG CUGAUGAG GCGGUUAGGC CGAA AGGUACGG	2962	GGGUUCGU C CGAAAGGG	183
2320	GGGUUCGG CUGAUGAG GCGGUUAGGC CGAA AGGUACGG	2963	GGGGACAU C CGCAAGGG	184

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2331	GGCUCUUG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGGCGUUG	2964	CAAGGCUU U CAAGAGCC	185
2332	UGGCUCUJ CUGAUGAG <u>GGCGUUAGGC</u> CGAA AAGGCGUJ	2965	AAGGCUU C AAGAGCCA	186
2344	AAGGUAGA CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGGCGUUG	2966	AGCGACGU C UCUACCUU	187
2346	UCAAGGUA CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGAGCGGG	2967	CGACGCU C UACCUUGA	188
2348	UG'UCAAGG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGAGCGGU	2968	ACGCGUJU A CCUJGACA	189
2352	GGUUCGUJ CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGGUAGAG	2969	CCUACCUU U GACAGACC	190
2361	UACCGCGU CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGGUUCGU	2970	ACAGACCU J CAJGCGAC	191
2370	GUCCGCUA CUGAUGAG <u>GGCGUUAGGC</u> CGAA ACGGCGUG	2971	CGAGCGCU A CAJGCGAC	192
2382	GAGGCAAG CUGAUGAG <u>GGCGUUAGGC</u> CGAA ACGGUJGCG	2972	GCGACAGU J CGUGGGUC	193
2383	UGAAGGAA CUGAUGAG <u>GGCGUUAGGC</u> CGAA AACUGUUG	2973	CGAGCGU C GUGGCGUA	194
2390	CGUCAGGU CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGCGACGA	2974	CGUGGCU C ACGUUCAG	195
2425	UOGAUJAG CUGAUGAG <u>GGCGUUAGGC</u> CGAA ACGGCGUG	2975	GAUJGCGU C GUGAUCGA	196
2428	UGGCGUAG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGGAGCG	2976	GGCGCGCU C AUCCAGCA	197
1431	GUUCGCU CUGAUGAG <u>GGCGUUAGGC</u> CGAA AUAGCGAC	2977	GUUCGCU C GAGCGAG	198
1442	UCAAGGAG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGGCGUUG	2978	GAAGACCU C GUCCUGA	199
1449	CAUCCAGG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGGAGCG	2979	GAAGACCU C CCUGAAUG	200
1470	ACGCGCGA CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGCGACGU	2980	AGGCGCU C UJGCGACU	201
1472	AGACGCG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGAGCGCA	2981	UGGCGCU U CGACGCUU	202
1473	AAAGCGUC CUGAUGAG <u>GGCGUUAGGC</u> CGAA AAGAGCG	2982	GGCGCGUJ C GAGGCUU	203
1479	CGUAGGAA CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGGUUCGA	2983	UUDGACGU C UJCGUACG	204
1481	AJCGUAGG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGACGCG	2984	GAACGCU U CGUACGCU	205
1482	AAAGCJAG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AAGACGUC	2985	GAAGCGUJ C CGACGCUJ	206
1485	AUAGAAGG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGCGAAAG	2986	UJUUCGU A CGGUUCAU	207
2490	GGCACAGG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGCGUAGG	2987	CCUACGU J CAJGUGGC	208
1491	UGGCACAU CUGAUGAG <u>GGCGUUAGGC</u> CGAA AAGCGUAG	2988	CUACGCUJ C AUJGUGCC	209
1515	UJGCGCGU CUGAUGAG <u>GGCGUUAGGC</u> CGAA AUUGCGAC	2989	GUCCGCAU C AGGGGCAA	210
2526	GGACGJAG CUGAUGAG <u>GGCGUUAGGC</u> CGAA ACUUCGCC	2990	GGCGCAAGU C CGACGCU	211
2529	ACUJGCGAG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGGATUUG	2991	CAAGACCU A CGGUCAU	212
2533	UGGCACUG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGGUAGGA	2992	UCCUACGU C CGUGGCC	213
1549	CGCGCGGG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AUCCCGUG	2993	CGGGGGAU C CGGCGGG	214
1554	AGAGCGAG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGCGCGC	2994	CGAGGGCU C CAUCCCU	215
1563	GUCCGAGAG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AUJGAGCG	2995	CGGUCCAU C CGUUCAC	216
1566	AGCGUGGA CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGCGAGGA	2996	UCCAUUCU C UCCACGU	217
1569	GCAGCGUG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGAGCGAG	2997	CAUCGCU C CGCGCGC	218
1574	AGCGCGCA CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGCGCGU	2998	ACGCGCU C CGGCGCU	219
1591	UJGCGCG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGCGACGG	2999	CGUGGCU A CGGGGACA	220
3616	UCCCGCGA CUGAUGAG <u>GGCGUUAGGC</u> CGAA ACACGCG	3000	CAACGCU U CGGGGGGA	221
3617	AUCCCGCG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AACACGCU	3001	AAACGCUU U CGGGGGAU	222
3626	UCCCGCG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AUCCCGCG	3002	CGGGGGAU U CGGGGGGA	223
3637	GUCCGCG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AAUCGCCG	3003	CGGGGGAU C CGGGGGAC	224
3644	AAACGCG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGCGCGC	3004	GGCGCGCU C CGCGGUUJ	225
3651	AUCCACCA CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGCGAGGA	3005	UCCUGGCU J UGGUGGAU	226
3653	CAUCGCG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AACCGAGG	3006	CGUGGCU J CGUJGAGG	227
3663	CAAACAGA CUGAUGAG <u>GGCGUUAGGC</u> CGAA ACUACCGA	3007	UGGACGCU J CGUJGUG	228
3664	CGAACAAAG CUGAUGAG <u>GGCGUUAGGC</u> CGAA AAUCAUCC	3008	CGAUGAUU U CGUUCUUGG	229
3665	ACCAACAA CUGAUGAG <u>GGCGUUAGGC</u> CGAA AAAUCAUC	3009	GAUGACGU C JUGUJGGU	230
2657	UCAACCAAC CUGAUGAG <u>GGCGUUAGGC</u> CGAA AGAAAUCA	3010	UGAUUCU U GUUGGUGA	231

Table III

2670	GUGUCACCG CUGAUGAG GCGGUUAGGC CGAA ACAAGAAA	3011	UUUCUUGU U GGUGACAC	232
2681	GGUGGAGGU CUGAUGAG GCGGUUAGGC CGAA AGGUGUCA	3012	UGACACCU C ACCUCACCC	233
2686	GCGUGGGU CUGAUGAG GCGGUUAGGC CGAA AGGUUAGG	3013	CCUCACCU C ACCCACGC	234
2703	UCCUGAGG CUGAUGAG GCGGUUAGGC CGAA AGGUUUCU	3014	AAAAACCU U CCUCAGGA	235
2704	GUCCUGAG CUGAUGAG GCGGUUAGGC CGAA AAAGGUUJJ	3015	AAAACCU U CCUCAGGAC	236
2707	AGGGUUCU CUGAUGAG GCGGUUAGGC CGAA AGGAAAGG	3016	ACCUUCGU C AGGACCCU	237
2719	ACACCUUCG CUGAUGAG GCGGUUAGGC CGAA AGGAGGGU	3017	ACCUUCGU C AGGAGGU	238
2728	UACUCAGG CUGAUGAG GCGGUUAGGC CGAA ACACCUUC	3018	AGGGGUU C CCUCAGUA	239
2736	CCGAGGCA CUGAUGAG GCGGUUAGGC CGAA AGGUUACG	3019	CCUCAGU A UGGUGEG	240
2754	UCCUCGCG CUGAUGAG GCGGUUAGGC CGAA AGGUUACG	3020	UUUCACU U GCGGAAGA	241
2775	GUACACGG CUGAUGAG GCGGUUAGGC CGAA AGGUUACG	3021	GUACACU U CCUCAGU	242
1777	UCCUCAGG CUGAUGAG GCGGUUAGGC CGAA AAUUCUAC	3022	GUACACU C CCUCAGA	243
2780	UCCUCUUC CUGAUGAG GCGGUUAGGC CGAA A UGGGAA	3023	UUUCUUGU A GAGGAGGA	244
2810	GUACACGG CUGAUGAG GCGGUUAGGC CGAA A UGGGUC	3024	GUACACU U CCUCAG	245
2811	UCCUCACG CUGAUGAG GCGGUUAGGC CGAA AGGCGUG	3025	GUACACU U CCUCAGA	246
2815	AUUCUACG CUGAUGAG GCGGUUAGGC CGAA ALACCGU	3026	GUACACU U CCUCAGAU	247
2816	GCGACUUC CUGAUGAG GCGGUUAGGC CGAA ACACCUUC	3027	GUACACU U CCUCAGCC	248
2816	GGGCUACU CUGAUGAG GCGGUUAGGC CGAA AAUACUAG	3028	GUACACU C AGGUUCCG	249
2834	GUACACGG CUGAUGAG GCGGUUAGGC CGAA AGGCGUG	3029	GUACACU A UGGCCCG	250
2838	ACACACGG CUGAUGAG GCGGUUAGGC CGAA A UGGCGG	3030	GGGCUAU U CCUCAGG	251
2839	GUACACGG CUGAUGAG GCGGUUAGGC CGAA AAUACGUC	3031	GUACACU C CCUCAGG	252
2844	GUACACGG CUGAUGAG GCGGUUAGGC CGAA AUUACGCA	3032	GUACACU A CCUCAGCC	253
2892	AGGUUAGG CUGAUGAG GCGGUUAGGC CGAA AGGUUCU	3033	GUACACU A CCUCAGCU	254
2894	GUACACGG CUGAUGAG GCGGUUAGGC CGAA A GUACUUC	3034	GUACACU C CCUCAGU	255
2901	UCCUCGCA CUGAUGAG GCGGUUAGGC CGAA AGGUUGAG	3035	GUACACU A UGGCCCGA	256
2917	GUACACGG CUGAUGAG GCGGUUAGGC CGAA AGGUUCGG	3036	GUACACU C CCUCAG	257
2917	GUACACGU CUGAUGAG GCGGUUAGGC CGAA A UGGAGGU	3037	GUACACU C AGGACCGA	258
2921	GUACACGG CUGAUGAG GCGGUUAGGC CGAA A UGGCGUC	3038	GUACACU C UGGCCUUC	259
2922	GUACACGG CUGAUGAG GCGGUUAGGC CGAA AGGUUCGG	3039	GUACACU C ACCUCCAA	260
2934	GGGGGUUG CUGAUGAG GCGGUUAGGC CGAA AGGUGAGA	3040	GUACACU U CCACCGGG	261
2935	GGGGGUUC CUGAUGAG GCGGUUAGGC CGAA AAGGUUGAG	3041	GUACACU C AAACCGGG	262
2944	GUACACGG CUGAUGAG GCGGUUAGGC CGAA A UGGCGGG	3042	GGGGGUU U CCACCGGG	263
2947	GUACACGU CUGAUGAG GCGGUUAGGC CGAA AAACCGGG	3043	GGGGGUU C AAACCGGG	264
2964	GUACACGG CUGAUGAG GCGGUUAGGC CGAA ACCGUACU	3044	GUACACU C GCAACUUC	265
2977	ACCCACAA CUGAUGAG GCGGUUAGGC CGAA AGGUUCGG	3045	GUACACU C UGGGGGUU	266
2979	AGACCCCA CUGAUGAG GCGGUUAGGC CGAA AGAUCUUC	3046	GUACACU C UGGGGGUU	267
2981	AAACCCCG CUGAUGAG GCGGUUAGGC CGAA AAGGUUUC	3047	GUACACU C UGGGGGUU	268
2984	AGGGCAAA CUGAUGAG GCGGUUAGGC CGAA ACCCCAAA	3048	GUACACU C UGGGGGUU	269
2984	UCAACCGA CUGAUGAG GCGGUUAGGC CGAA AGACCCCA	3049	GUACACU U GGGGUUGA	270
3001	GUACACGG CUGAUGAG GCGGUUAGGC CGAA ACACCUUC	3050	GUACACU C ACACCUUC	271
3012	AAUCACGA CUGAUGAG GCGGUUAGGC CGAA ACACCUUC	3051	GUACACU U UGGGGGUU	272
3013	AAACUCAG CUGAUGAG GCGGUUAGGC CGAA AACACGUU	3052	GUACACU U UGGGGGUU	273
3014	GUACACGG CUGAUGAG GCGGUUAGGC CGAA AACACGUU	3053	GUACACU C UGGGGGUU	274
3021	GUACACGG CUGAUGAG GCGGUUAGGC CGAA AACACGUU	3054	GUACACU U UGGGGGUU	275
3021	GUACACGG CUGAUGAG GCGGUUAGGC CGAA AAUCACGA	3055	GUACACU U UGGGGGUU	276
3037	ACGGUGU CUGAUGAG GCGGUUAGGC CGAA AGGUUCU	3056	GUACACU C UGGGGGUU	277
3053	AUCUUGUA CUGAUGAG GCGGUUAGGC CGAA AUGUUGGU	3057	GUACACU C UACAAGAU	278

Table III

3060	GGAU <u>UUG</u> CUGAUGAG	GGCGUUAGGC	CGAA AGAUGUUG	3058	CAACAU <u>C</u> CAAGAUCC	279
3067	AGCAGGAG CUGAUGAG	GGCGUUAGGC	CGAA AU <u>UUGUA</u>	3059	UACAA <u>GAU</u> C CUCUGCU	280
3070	U <u>U</u> CA <u>GG</u> CAG CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GAU</u> U	3060	A <u>GAU</u> CCU C CUGCUGCA	281
3084	GA <u>AA</u> GU <u>U</u> CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> CUGC	3061	GU <u>GG</u> GG <u>U</u> A CAGGUUJC	282
3090	A <u>U</u> GG <u>GG</u> GA CUGAUGAG	GGCGUUAGGC	CGAA ACCUGUAC	3062	GU <u>AC</u> AG <u>GU</u> U UCACGCAU	283
3091	CA <u>U</u> GG <u>GG</u> GA CUGAUGAG	GGCGUUAGGC	CGAA AA <u>U</u> CGUUA	3063	UACAGGUU U CAC <u>CG</u> AU	284
3092	A <u>CA</u> GG <u>GG</u> GA CUGAUGAG	GGCGUUAGGC	CGAA AA <u>AC</u> UJGU	3064	A <u>CA</u> GG <u>GU</u> U C AD <u>GA</u> GU	285
3112	U <u>G</u> AA <u>GG</u> GG CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> U <u>CA</u> U	3065	GU <u>GG</u> GG <u>U</u> C C <u>CA</u> UJUCA	286
3117	GU <u>GG</u> GA <u>GG</u> CUGAUGAG	GGCGUUAGGC	CGAA AU <u>GG</u> GA <u>GG</u>	3066	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> C	287
3118	U <u>U</u> GG <u>GG</u> GA CUGAUGAG	GGCGUUAGGC	CGAA AA <u>U</u> GG <u>GG</u> AG	3067	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> C	288
3119	U <u>U</u> GG <u>GG</u> GA CUGAUGAG	GGCGUUAGGC	CGAA AA <u>U</u> GG <u>GG</u> AA	3068	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> AA	289
3122	AA <u>U</u> GG <u>GG</u> GA CUGAUGAG	GGCGUUAGGC	CGAA AA <u>U</u> GG <u>GG</u> UJ	3069	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	290
3130	U <u>U</u> GG <u>GG</u> GA CUGAUGAG	GGCGUUAGGC	CGAA AC <u>U</u> GG <u>GG</u> UJ	3070	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> AA	291
3131	GU <u>GG</u> GG <u>U</u> CUGAUGAG	GGCGUUAGGC	CGAA AA <u>U</u> GG <u>GG</u> UJ	3071	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> AA	292
3147	GG <u>GG</u> GG <u>AA</u> CUGAUGAG	GGCGUUAGGC	CGAA AA <u>U</u> GG <u>GG</u> UJ	3072	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	293
3148	GG <u>GG</u> GG <u>AA</u> CUGAUGAG	GGCGUUAGGC	CGAA AA <u>U</u> GG <u>GG</u> UJ	3073	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	294
3149	GG <u>GG</u> GG <u>AA</u> CUGAUGAG	GGCGUUAGGC	CGAA AA <u>U</u> GG <u>GG</u> UJ	3074	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	295
3150	GG <u>GG</u> GG <u>AA</u> CUGAUGAG	GGCGUUAGGC	CGAA AA <u>U</u> GG <u>GG</u> UJ	3075	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	296
3151	AC <u>GG</u> GG <u>AA</u> CUGAUGAG	GGCGUUAGGC	CGAA AA <u>U</u> GG <u>GG</u> UJ	3076	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	297
3160	U <u>U</u> GG <u>GG</u> GA CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3077	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	298
3163	GU <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AA <u>U</u> GG <u>GG</u> UJ	3078	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	299
3165	GG <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AA <u>U</u> GG <u>GG</u> UJ	3079	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	300
3177	A <u>GG</u> GG <u>GG</u> GA CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3080	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	301
3181	GA <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3081	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	302
3186	GG <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3082	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	303
3189	U <u>U</u> GG <u>GG</u> GA CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3083	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	304
3193	GU <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AA <u>U</u> GG <u>GG</u> UJ	3084	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	305
3219	GG <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AC <u>U</u> GG <u>GG</u> UJ	3085	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	306
3248	GG <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3086	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	307
3255	GG <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3087	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	308
3288	U <u>U</u> GG <u>GG</u> GA CUGAUGAG	GGCGUUAGGC	CGAA AA <u>U</u> GG <u>GG</u> UJ	3088	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	309
3289	U <u>U</u> GG <u>GG</u> GA CUGAUGAG	GGCGUUAGGC	CGAA AA <u>U</u> GG <u>GG</u> UJ	3089	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	310
3295	GU <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3090	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	311
3305	AC <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3091	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	312
3316	AC <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3092	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	313
3321	GU <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3093	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	314
3331	GA <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3094	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	315
3339	GU <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3095	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	316
3343	GU <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3096	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	317
3368	GA <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3097	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	318
3376	GU <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3098	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	319
3429	U <u>U</u> GG <u>GG</u> GA CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3099	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	320
3435	UG <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3100	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	321
3436	A <u>GG</u> GG <u>GG</u> GA CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3101	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	322
3446	TA <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3102	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	323
3503	GG <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3103	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	324
3514	GG <u>GG</u> GG <u>GA</u> CUGAUGAG	GGCGUUAGGC	CGAA AG <u>GG</u> GG <u>GG</u>	3104	GU <u>GG</u> GG <u>U</u> U U <u>CA</u> U <u>GG</u> UJ	325

Table III

3516	CUGGGACG CUGAUGAG GCGGUUAGGC CGAA AGAGCCCG	3105	CGGGCUCU A CGUCCAG	326
3520	CUCCUUGG CUGAUGAG GCGGUUAGGC CGAA AGGJAGAG	3106	CUCUACGU C CGAGGGAG	327
3568	AGGOCUCA CUGAUGAG GCGGUUAGGC CGAA ACUCCCG	3107	CUGGGAGU C UGAGGCCU	328
3587	CUGGGCGA CUGAUGAG GCGGUUAGGC CGAA ACACUCAC	3108	GUAGAGGU U UGGGGAG	329
3588	CCUCCGGG CUGAUGAG GCGGUUAGGC CGAA AACACUCA	3109	UGAGUGGU U GCGGAGG	330
3616	UUCAGGGG CUGAUGAG GCGGUUAGGC CGAA ACACUCAG	3110	CUGCAUCU C CGGCGAA	331
3619	CUCAGGGG CUGAUGAG GCGGUUAGGC CGAA ACACUCAG	3111	CUGAGGUU C CGGCGAA	332
3648	CUUCCGGG CUGAUGAG GCGGUUAGGC CGAA ACACUCAG	3112	GUAGGUU C CAGGTAAG	333
3667	GUUGCTUG CUGAUGAG GCGGUUAGGC CGAA ACACUCAG	3113	CUGAGGUU C CAGCACAC	334
3672	GAAGUGAA CUGAUGAG GCGGUUAGGC CGAA AGGGCAGG	3114	GUUGGUU C UUCACUUC	335
3685	GGGAAAGU CUGAUGAG GCGGUUAGGC CGAA AGACGGCA	3115	UUCGGGUU U CACUUCG	336
3686	GGGGAA U CUGAUGAG GCGGUUAGGC CGAA AAAGGGG	3116	GUUGGUU C AGUUCCG	337
3690	GUUGGGGG CUGAUGAG GCGGUUAGGC CGAA AGUAGAAG	3117	UUCGGGUU U CGCAACAG	338
3691	GUUGGGGG CUGAUGAG GCGGUUAGGC CGAA AGUAGAAG	3118	CUGCAUCU C CGGAGAGG	339
3718	GUUGGGGG CUGAUGAG GCGGUUAGGC CGAA AGGCGAGG	3119	GUUGGGGU C GCGUUCAC	340
3719	GUUGGGGG CUGAUGAG GCGGUUAGGC CGAA AGGCGAGG	3120	GUUGGGGU C CGGCGAG	341
3730	GUUGGGGG CUGAUGAG GCGGUUAGGC CGAA AGGCGAGG	3121	GUUGGGGU U UUCUUCAC	342
3771	GUUGGGGG CUGAUGAG GCGGUUAGGC CGAA AGGCGAGG	3122	GUUGGGGU U UUCUUCAC	343
3772	GUUGGGGG CUGAUGAG GCGGUUAGGC CGAA AAAGCGGG	3123	GUAGGUU U CGCAACCA	344
3773	GUUGGGGG CUGAUGAG GCGGUUAGGC CGAA AAAGCGGG	3124	GUAGGUU U CGCAACCA	345
3776	GUUGGGGG CUGAUGAG GCGGUUAGGC CGAA AGGAAAAAG	3125	GUUGGGGU C AGGAGGAG	346
3779	GGGAGGGG CUGAUGAG GCGGUUAGGC CGAA AGGCGGGG	3126	GUUGGGGU U CGCAACCG	347
3780	GGGAGGGG CUGAUGAG GCGGUUAGGC CGAA AGGCGGGG	3127	GUUGGGGU C CGACUCCCG	348
3788	UAUGGGGG CUGAUGAG GCGGUUAGGC CGAA AGUGGAAG	3128	GUUGGGGU C CGCAACAU	349
3796	AUAAUUCG CUGAUGAG GCGGUUAGGC CGAA AUUGGGGG	3129	GUUGGGGU A GGAAUAGU	350
3797	GUAGGGAC CUGAUGAG GCGGUUAGGC CGAA AUUCCUAU	3130	AUAGGAAU A GUCCAUCC	351
3798	UCCGGAGG CUGAUGAG GCGGUUAGGC CGAA ACUACUCC	3131	GUAGGUU C CGACCGCA	352
3799	AAUCCGGG CUGAUGAG GCGGUUAGGC CGAA AUUGGGAA	3132	GUAGGUU C CGACGAGU	353
3807	AAUCCGGG CUGAUGAG GCGGUUAGGC CGAA AUUGGGGG	3133	GUAGGUU U CGCAACUUG	354
3808	ACAAUUCG CUGAUGAG GCGGUUAGGC CGAA AUUCCUCC	3134	GUAGGUU C CGCAJUGU	355
3814	GGGAGAAC CUGAUGAG GCGGUUAGGC CGAA AUUGGGAA	3135	GUAGGUU U CGUACACCG	356
3817	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA ACACUCCG	3136	GUAGGUU U CGACCCCG	357
3843	GGAGGGGU CUGAUGAG GCGGUUAGGC CGAA AACAAUCC	3137	GUAGGUU C CGACCCCG	358
3856	GGCAGGGC CUGAUGAG GCGGUUAGGC CGAA AGGGGGCA	3138	GUAGGUU C CGACGGCC	359
3866	AGGCAAAAG CUGAUGAG GCGGUUAGGC CGAA AGGGGAGG	3139	GUAGGGGU C GUUGGGGU	360
3870	GGGAGGGC CUGAUGAG GCGGUUAGGC CGAA AGGGGAGG	3140	GUAGGGGU U CGGGGUCC	361
3879	UCCGGAGG CUGAUGAG GCGGUUAGGC CGAA AGGGGGGG	3141	GUAGGGGU U CGGGGUCC	362
3885	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA AGGGGAAAG	3142	GUAGGGGU U CGGGGUCC	363
3896	UCCGGGGG CUGAUGAG GCGGUUAGGC CGAA AGGGGAAA	3143	GUAGGGGU U CGGGGUCC	364
3939	UCCGGGGG CUGAUGAG GCGGUUAGGC CGAA AUUGGGGG	3144	GUAGGGGU C CGGGGGGA	365
3973	AAUUCCGA CUGAUGAG GCGGUUAGGC CGAA AGGUCCCA	3145	GUAGGGGU C CGGGGAAU	366
3981	UCCGGGGG CUGAUGAG GCGGUUAGGC CGAA AUUCCUAG	3146	GUAGGGGU U CGGGGUCA	367
3982	GUACACUCA CUGAUGAG GCGGUUAGGC CGAA AACUCCCA	3147	GUAGGGGU U CGGGGUCA	368
3987	GGGCGUGG CUGAUGAG GCGGUUAGGC CGAA ACACGGCA	3148	GUAGGGGU A CGACGGCG	369
3940	GGGACACGG CUGAUGAG GCGGUUAGGC CGAA ACACCGAU	3149	AUGGGGGGU C CGUUGGGG	370
3950	GGCAAUUU CUGAUGAG GCGGUUAGGC CGAA ACCACACAG	3150	GUAGGGGU C AAAUUGGG	371
3955	GUCCCCCC CUGAUGAG GCGGUUAGGC CGAA AUUUGACG	3151	GUCAAAU U CGGGGGAG	372

Table III

3977	CAGUAUUU CUGAUGAG <u>GCCGUUAGGC</u> CGAA ACUCCCAC	3152	GUGGGAGU A AAAUACUG	373
3982	AUAUUCAG CUGAUGAG <u>GCGGUUAGGC</u> CGAA AUUJUACU	3153	AGUAAAUAU A CUGAAUAU	374
3989	AACUCAUA CUGAUGAG <u>GCGGUUAGGC</u> CGAA AUUCAGUA	3154	UACUGAAU A U AUGAGUU	375
3991	AAAACUCA CUGAUGAG <u>GCGGUUAGGC</u> CGAA AUAIJUCAG	3155	CUGAAUAU A U GAGUUUU	376
3997	AACUGAAA CUGAUGAG <u>GCGGUUAGGC</u> CGAA ACUCAJAU	3156	AUAUGAGU U UUUCAGUU	377
3998	AAACUGAA CUGAUGAG <u>GCGGUUAGGC</u> CGAA AACUCAUA	3157	UAUGAGUU U UUCAGUUU	378
3999	AAAACUGA CUGAUGAG <u>GCGGUUAGGC</u> CGAA AACUCUAU	3158	AUGAGUUU U U CAGUUUU	379
4000	CAAAACUG CUGAUGAG <u>GCGGUUAGGC</u> CGAA AAAACUCA	3159	UGAGJUUU U CAGUUUUG	380
4001	UCAAAACU CUGAUGAG <u>GCGGUUAGGC</u> CGAA AAAAACUC	3160	GAGUJUUU C AGUUUUGA	381
4005	UUUUUCAA CUGAUGAG <u>GCGGUUAGGC</u> CGAA ACUGAAAA	3161	UUUUCAGU U UGAAAAAA	382
4006	UUUUUUUCA CUGAUGAG <u>GCGGUUAGGC</u> CGAA AACUGAAA	3162	UUUCAGUU U UGAAAAAA	383
4007	UUUUUUUUC CUGAUGAG <u>GCGGUUAGGC</u> CGAA AACUGAA	3163	UUCAGJUU U GAAAAAAA	384

Stem Length = 8 . Core Sequence = CUGAUGAG GCCGUUAGGC CGAA

Seq1 = TERT (Homo sapiens telomerase reverse transcriptase (TERT) mRNA, 4015 bp); Nakamura *et al.*, Science 277 (5328), 955-959 (1997)

Table IV

Table IV: Human telomerase reverse transcriptase (TERT) NCH Ribozyme and Target Sequence

nt. Position	Ribozyme Sequence	Seq ID Nos	Substrate Sequence	Seq ID Nos
14	GCGCAGCA CUGAUGAG GCGGUUAGGC CGAA IAGCGAGC	385	GCUGCGUC C UGCUGCGC	3164
15	UGCGCAGC CUGAUGAG GCGGUUAGGC CGAA IAGCGAGC	386	CUGCGUCC U GCUGCGCA	3165
18	ACGUGGCG CUGAUGAG GCGGUUAGGC CGAA ICGAGGAG	387	CGUCGUCG U CGCGACGU	3166
23	UJCGCGAG CUGAUGAG GCGGUUAGGC CGAA ICGCGAGA	388	UJCGUGCG A CGUGGGAA	3167
34	GGGGCGAG CUGAUGAG GCGGUUAGGC CGAA ICGUCCCA	389	UJGGGAAGC C CGGGCCCC	3168
35	CGGGCGAG CUGAUGAG GCGGUUAGGC CGAA ICGUCCCA	390	GGGAAGGC C UGGGCGCG	3169
36	CGGGCGAG CUGAUGAG GCGGUUAGGC CGAA ICGUCCCA	391	GGAAAGCC U GGGCGCGG	3170
40	GUUGGGCG CUGAUGAG GCGGUUAGGC CGAA ICGUCCCA	392	GCUGGGC C CGGGCGAC	3171
41	GGGGCGAG CUGAUGAG GCGGUUAGGC CGAA ICGCGAGG	393	CGCGGGC C CGGGCGAC	3172
42	GGGGCGAG CUGAUGAG GCGGUUAGGC CGAA ICGCGAGG	394	CGUAGCGC C CGGGCGAC	3173
44	GGGGCGAG CUGAUGAG GCGGUUAGGC CGAA ICGGGGGC	395	GGCGGGC C ACGGGGGT	3174
47	CGGGCGAG CUGAUGAG GCGGUUAGGC CGAA ICGGGGGC	396	GGGGGGCC A CGGGGGGG	3175
48	AUGGGGGG CUGAUGAG GCGGUUAGGC CGAA IUGGGCGG	397	CGCGCAC C CGCGGAU	3176
50	CAUCGCGG CUGAUGAG GCGGUUAGGC CGAA IUGGGCGG	398	GGGGCGAC C CGCGGAU	3177
51	CGAUCGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCGG	399	GGCGACCC C CGCGAUGC	3178
52	GGCAUCGC CUGAUGAG GCGGUUAGGC CGAA IGGGGGGC	400	GCACACCC C CGCGAUGC	3179
54	GAUCGCGG CUGAUGAG GCGGUUAGGC CGAA ICAUCGCG	401	CGCGAUGC C CGCGCGU	3180
67	CAUCGCGG CUGAUGAG GCGGUUAGGC CGAA IGGCGCGG	402	CGGCGCGC U CGCGCGUG	3181
68	CGCGCGGG CUGAUGAG GCGGUUAGGC CGAA IAGCGCGC	403	GGCGCGCG C CGCGCGCG	3182
70	CGCGCGCG CUGAUGAG GCGGUUAGGC CGAA IAGCGCGG	404	CGCGCGCC C CGCGCGCG	3183
71	CGCGCGCG CUGAUGAG GCGGUUAGGC CGAA IGGCGCGG	405	CGCGCGCC C CGCGCGCA	3184
74	GGCGCGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCGG	406	CGCGCGCG U CGCGCGCG	3185
75	CAUCGCGC CUGAUGAG GCGGUUAGGC CGAA ICAUCGCG	407	CGCGCGCG C GAGCGCGG	3186
83	GAUCGCGC CUGAUGAG GCGGUUAGGC CGAA ICGUCGCG	408	UGCGGAGC C GUGCGCG	3187
89	CAUCGCGG CUGAUGAG GCGGUUAGGC CGAA ICGUCGCG	409	CGGUGCGC U CGCGCGCG	3188
91	CGCAGCGAG CUGAUGAG GCGGUUAGGC CGAA IAGCGCAC	410	GGCGCGCG C CGCGCGCG	3189
93	GGCGCGCG CUGAUGAG GCGGUUAGGC CGAA IAGCGCGA	411	GGCGCGCG C CGCGCGCG	3190
95	UGCGCGCG CUGAUGAG GCGGUUAGGC CGAA IGGCGCGG	412	GGCGCGCG U CGCGCGCA	3191
96	GGCGCGCG CUGAUGAG GCGGUUAGGC CGAA ICAUCGCG	413	CGCGCGCG U CGCGCGCG	3192
101	GUAGGGCG CUGAUGAG GCGGUUAGGC CGAA ICGCGCAC	414	UGCGCGCG A CGCGCGAC	3193
104	GGGGCGAG CUGAUGAG GCGGUUAGGC CGAA ICGUCGCG	415	GGCGCGCG C ACUGCGCG	3194
105	GGCGCGAG CUGAUGAG GCGGUUAGGC CGAA ICGUCGCG	416	GGCGCGCG A UJACUUCG	3195
107	GGGGCGCG CUGAUGAG GCGGUUAGGC CGAA IUGGGCGG	417	GCAGCGAC U ACGGCGAG	3196
110	CAUCGCGC CUGAUGAG GCGGUUAGGC CGAA IUGGGCGG	418	GGCGCGCG C CGCGCGCG	3197
120	CGAGGGCG CUGAUGAG GCGGUUAGGC CGAA ICGCGCG	419	CGAGGGCG U CGCGCGCG	3198
123	GGCGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGCGCAC	420	GGUGCGCG C CGCGCGCA	3199
126	ACGUGGGC CUGAUGAG GCGGUUAGGC CGAA ICGCGCAC	421	GGCGCGCG U CGCGCGU	3200
130	ACGAAACGU CUGAUGAG GCGGUUAGGC CGAA ICGCGCG	422	CGCGCGCG C ACGUUCGU	3201
131	CAUCGCGG CUGAUGAG GCGGUUAGGC CGAA ICGCGCG	423	GGCGCGCG A CGCGCGCG	3202
146	GGGGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGCGCGA	424	GGGGGGCG C CGGGGGCG	3203
147	GGGGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGCGCG	425	GGGGGGCG U CGGGGGCG	3204
153	AGCGTUGG CUGAUGAG GCGGUUAGGC CGAA ICGCGCG	426	GGGGGGCG C CCAGGGCG	3205
154	CAGCUCUG CUGAUGAG GCGGUUAGGC CGAA ICGCCCCAG	427	CUGGGGGC C CAGGGCG	3206

Table IV

155	CCAGCCCCU CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	428	UGGGGGCC C AGGGCUGG	3207
156	GGCAGGCC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	429	GGGGCCCG A GGGCUGGC	3208
161	CAGGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	430	GGCAAGGC U GGGGGCUG	3209
168	GGUGGAGC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	431	GGGGGGCC U GGUGCAGC	3210
174	GGGGGGGC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	432	GGGGGGCC A GGGGGGGG	3211
185	AGGGGGGC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	433	GGGGGGAC C GGGGGGGU	3212
186	AAAGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	434	GGGGGGAC C GGGGGGGU	3213
193	GGGGGGAA CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	435	GGGGGGCC U UGGGGGGC	3214
197	CAAGGGGC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	436	GGGGGGCC C GGGGGGGG	3215
204	GGGGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	437	GGGGGGCC U GGGGGGGC	3216
211	AGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	438	GGGGGGCC C GGGGGGGU	3217
212	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	439	GGGGGGCC C AGGGGGGU	3218
213	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	440	GGGGGGCC A GGGGGGGG	3219
218	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	441	GGGGGGCC C UGGGGGGG	3220
219	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	442	GGGGGGCC U GGGGGGGG	3221
231	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	443	GGGGGGCC C GGGGGGGG	3222
232	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	444	GGGGGGCC C UGGGGGGG	3223
233	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	445	GGGGGGCC U GGGGGGGG	3224
241	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	446	GGGGGGCC A GGGGGGGG	3225
246	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	447	GGGGGGCC C GGGGGGGG	3226
249	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	448	GGGGGGCC C GGGGGGGG	3227
250	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	449	GGGGGGCC C GGGGGGGG	3228
251	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	450	GGGGGGCC C GGGGGGGG	3229
252	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	451	GGGGGGCC C GGGGGGGG	3230
257	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	452	GGGGGGCC C GGGGGGGG	3231
258	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	453	GGGGGGCC C GGGGGGGG	3232
259	AAAGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	454	GGGGGGCC C GGGGGGGG	3233
260	GAAGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	455	GGGGGGCC C GGGGGGGG	3234
261	GGAAAGGG CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	456	GGGGGGCC C GGGGGGGG	3235
262	GGGAAGGA CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	457	GGGGGGCC C GGGGGGGG	3236
263	GGGGAAAG CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	458	GGGGGGCC U GGGGGGGG	3237
265	GGGGGGAA CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	459	GGGGGGCC C GGGGGGGG	3238
266	GGGGGGAA CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	460	GGGGGGCC U GGGGGGGG	3239
267	GGGGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	461	GGGGGGCC C GGGGGGGG	3240
270	GGGGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	462	GGGGGGCC C GGGGGGGG	3241
273	GGGGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	463	GGGGGGCC A GGGGGGGG	3242
274	GGGGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	464	GGGGGGCC C GGGGGGGG	3243
281	GGGGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	465	GGGGGGCC U GGGGGGGG	3244
284	GGGGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	466	GGGGGGCC C GGGGGGGG	3245
285	GGGGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	467	GGGGGGCC U GGGGGGGG	3246
294	GGGGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	468	GGGGGGCC U GGGGGGGG	3247
301	GGGGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	469	GGGGGGCC C GGGGGGGG	3248
302	GGGGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	470	GGGGGGCC C GGGGGGGG	3249
303	GGGGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	471	GGGGGGCC U GGGGGGGG	3250
312	GGGGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	472	GGGGGGCC A GGGGGGGG	3251
318	GGGGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	473	GGGGGGCC U GGGGGGGG	3252
345	GGGGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGGCCCA	474	GGGGGGCC U GGGGGGGG	3253

Table IV

349	AAGCCGAA CUGAUGA ³ GCGGUUAGGC CGAA ICGAGCAC	475	GUGCUGGC C UUCGGCUU	3254
350	CAAGCCGA CUGAUGA ³ GCGGUUAGGC CGAA ICGAGCA	476	UUCUUGGC U UCGGGCUJC	3255
356	CAGCGCGA CUGAUGA ³ GCGGUUAGGC CGAA ICGGAGG	477	CCUUCGGC U UCGGCGUG	3256
363	CGUCCAGC CUGAUGA ³ GCGGUUAGGC CGAA ICGGGAAG	478	CCUCGCGC U GCGUGGACG	3257
366	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA ICGAGCG	479	CGCGCGGC U GGACGGGG	3258
376	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA ICGCGCGC	480	GACGGGGC C CGCGGGGG	3259
377	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA ICGCGCGJ	481	AAGGGGGC C GCGGGGGC	3260
386	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CGCGCGC	482	CGCGGGGC C CGCGCGAG	3261
387	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CGCGCGG	483	CGCGGGGC C CGCGCGAG	3262
388	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CGCGCGG	484	CGCGGGGC C CGCGAGGC	3263
389	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CGGGCGC	485	CGCGGGGC C CGCGAGGC	3264
390	AGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CGGGCGC	486	CGCGGGGC C CGAGGCCJ	3265
391	AAAGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CGGGGGCC	487	CGCGGGGC C GAGGCCJ	3266
397	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CGCGCGG	488	CGCGAGGC C UUCACCA	3267
398	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CGCGCGG	489	CGCGAGGC U UACCCAT	3268
401	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I AAAGCCU	490	AGGCGUC A CGAACAGC	3269
402	AGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I UGAAGGC	491	CGCGUAC C ACCAGGU	3270
404	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I UGAAGGC	492	CGCGUAC A CGAACAGU	3271
406	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I UGGUUGAA	493	UUCACCGC C AGCGUGCG	3272
407	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I UGGUGGA	494	UCAACACG A CGUGGGC	3273
416	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CGGAGGC	495	CGCGUGGC A CGUACCGJ	3274
419	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I UUAGCGA	496	UUGCGAGC U ACCUGGCC	3275
422	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I UUAGCGC	497	CGCGUAC C UGCGAAC	3276
423	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I UUAGCGG	498	CGCGUAC C CGCGAAC	3277
426	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CGGGUAG	499	UACCGGC C AAACACGG	3278
427	ACCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CGGAGGA	500	UACCGGC C AAACACGG	3279
428	CAACGUGU CUGAUGA ³ GCGGUUAGGC CGAA I CGGAGGU	501	ACCGCGGC A ACACGGUG	3280
431	GGCGACCG CUGAUGA ³ GCGGUUAGGC CGAA I UUUGGGCA	502	UUGCGAAC A CGGGGACG	3281
434	AGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I UUACCGU	503	ACCGCGGC C GACGACAU	3282
445	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CGGGCGU	504	ACCGCGGC A CGGGGGGG	3283
447	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I UGGCGUC	505	CGACGACG C CGGGGGCA	3284
471	GCAGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CGGGCGAT	506	UUGGGGGC U CGCGCGC	3285
474	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CGGGCGC	507	GGGGCGUC U CGGGCGCG	3286
477	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CGGCGAC	508	CGCGCGGC U CGGGCGCG	3287
482	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CGGCGAC	509	UUGCGCGC C CGGGGGGC	3288
501	GGCGAACG CUGAUGA ³ GCGGUUAGGC CGAA I CAUUCG	510	CGACGACG U CGGGCGC	3289
507	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I AACCGAC	511	CGCGCGGC A CGGGCGG	3290
509	UUGCGACG CUGAUGA ³ GCGGUUAGGC CGAA I UGAAACCA	512	UUGCGACG C CGGGCGA	3291
511	UUGCGACG CUGAUGA ³ GCGGUUAGGC CGAA I UGAAACCA	513	CGCGCGGC U CGGGCGAC	3292
513	AGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CAGGUGA	514	UACCGUGC U CGCGCGG	3293
517	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CAGGUGA	515	CGCGCGGC A CGGGCGC	3294
521	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CGGGCGA	516	CGCGCGGC U CGGGCGCC	3295
523	CGACAAAG CUGAUGA ³ GCGGUUAGGC CGAA I CGGGCGA	517	CGCGCGGC U CGGGCGCG	3296
530	CGACACAA CUGAUGA ³ GCGGUUAGGC CGAA I ACGCGCG	518	CGCGCGGC U CGGGCGCG	3297
537	CGACACAA CUGAUGA ³ GCGGUUAGGC CGAA I CACAAAG	519	CGCGCGGC U CGGGCGCC	3298
544	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CGGGCGA	520	CGCGCGGC U CGGGCGCG	3299
546	CGCGCGGC CUGAUGA ³ GCGGUUAGGC CGAA I CGGGCGAC	521	CGCGCGGC C CGCGCGCG	3300

Table IV

547	GCGCAGCU CUGAUGAG GCGGUUAGGC CGAA IGGAGGCC	522	GUGGCCUC C AGCUGCGC	3301
548	GGCGCAGC CUGAUGAG GCGGUUAGGC CGAA IGGAGCCA	523	UGGCUCCG A GCGUGCGC	3302
551	GUAGGCGC CUGAUGAG GCGGUUAGGC CGAA IGGAGGAG	524	CUCGCAGC U GCGCCUAC	3303
556	ACCUUGUA CUGAUGAG GCGGUUAGGC CGAA IGGAGGCU	525	AGCUGCGC C UACCAAGGU	3304
557	CACCUJGGU CUGAUGAG GCGGUUAGGC CGAA IGGAGGAG	526	GCGUGCGC U ACCAGGGU	3305
560	GCACACCU CUGAUGAG GCGGUUAGGC CGAA IGGAGGCG	527	GCGCCUAC C AGGUGUGC	3306
561	CGCACACG CUGAUGAG GCGGUUAGGC CGAA IGGAGGCG	528	GCGCUAUC A GGUGUGCG	3307
573	ACAGCGGG CUGAUGAG GCGGUUAGGC CGAA IGGAGGAC	519	GUGGGGGC C GCGUGUJ	3308
576	GGUACAGC CUGAUGAG GCGGUUAGGC CGAA IGGAGGCG	530	GGGGGGCG C GCGUGUAC	3309
579	GGUGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGAGGCG	531	GGGGGGCG U GUACCAAG	3310
584	GGCGAGCU CUGAUGAG GCGGUUAGGC CGAA IGGAGGCG	532	GGGGGUAC C AGGUGGGG	3311
585	GGCGAGCG CUGAUGAG GCGGUUAGGC CGAA IGGAGGCG	533	GGUGGUAC A GCGUGGGG	3312
588	CAACCGCC CUGAUGAG GCGGUUAGGC CGAA IGGAGGAC	534	GUACCAAC U GCGGGGGG	3313
595	UGAGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGAGGAG	535	GUAGGGGG U GCGACCUA	3314
598	GGCGAGGU CUGAUGAG GCGGUUAGGC CGAA IGGAGGCG	536	GCGGCGCG C AGCAGGTT	3315
599	GGCGUGAG CUGAUGAG GCGGUUAGGC CGAA IGGAGGCG	537	GCGUGGGC A GCGAGGGC	3316
601	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGAGGAG	538	GGUGGUAC U GAGGGGGG	3317
602	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGAGGCA	539	GGCGACUC A GGGGGGGG	3318
607	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGAGGAG	540	ACUCAGGC C GGGGGGGG	3319
608	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGCGGAG	541	GUACAGGC C GGGGGGGG	3320
612	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGGC	542	GGGGGGCG C GCGGGCCAC	3321
613	UGUGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGGC	543	GGGGGGGG C GCGGACAC	3322
614	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGGG	544	GGGGGGGG C GCGGACAC	3323
615	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGGG	545	GGGGGGCG C GCGACACG	3324
618	UAGGUGGU CUGAUGAG GCGGUUAGGC CGAA IGGGGGGG	546	GGGGGGCG C ACACGUJA	3325
619	GUAGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGGG	547	GGGGGGCG A GCGGUAG	3326
621	CAUAGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGGG	548	GGGGGGAC A GCGUAGUG	3327
625	GGGGGGGU CUGAUGAG GCGGUUAGGC CGAA IGGGGGGG	549	GGGGGGAC U AGGGGAC	3328
633	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGU	550	UAGGGGAC C GCGAAGGC	3329
634	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGU	551	AGGGGAC C GGAAGGGG	3330
635	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGU	552	GGGGGGCG C GAAAGGGU	3331
640	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGU	553	AAGGGGGC U GGGGAGGG	3332
661	UGGGGGGU CUGAUGAG GCGGUUAGGC CGAA IGGGGGU	554	GGGGGGGG C UGGGACCA	3333
662	AUGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGU	555	AAAGGGGG U GGAACCAU	3334
663	GAAGGUAC CUGAUGAG GCGGUUAGGC CGAA IGGGGGG	556	GGGGGGAC C AUAGGGGU	3335
669	UGAGGGUA CUGAUGAG GCGGUUAGGC CGAA IGGGGGU	557	GGGGGGAC A UAGGGUCA	3336
677	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGU	558	AUAGGGGU A GGGGGGGC	3337
689	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGU	559	AGGGGGCG C GGGGGGUCC	3338
690	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGGG	560	GGGGGGGU C GCGGGGGC	3339
693	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGGG	561	GGGGGGGU C GCGGGGGC	3340
694	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGGG	562	GGGGGGGU C GUGGGGU	3341
695	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGGG	563	GGGGGGGU C UGGGGGGUG	3342
696	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGGG	564	GGGGGGGG U GGGGGGU	3343
701	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGGG	565	GGGGGGGG C UGGGGGU	3344
705	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGGG	566	GGGGGGGG U GCGAGGCC	3345
706	GGGGGGGU CUGAUGAG GCGGUUAGGC CGAA IGGGGGU	567	GGGGGGGG C AGGGGGGG	3346
706	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGU	568	GGGGGGGU A GCGGGGGG	3347

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709	GCACCCGG CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	569	CUGCCAGC C CGGGGUGC	3348
710	CGCACCG CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	570	UGCAGGCC C CGGGUGCG	3349
711	UCGCACCC CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	571	GCGAGGCC C GGGUGCGA	3350
734	GCUGGGAC CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	572	GCGGGGGC A GUGCCAGC	3351
739	CUCGGGCU CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	573	GGCAGUGC C AGCGGAAG	3352
740	ACUJGGGC CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	574	GCAGUGCC A GCGGAAGU	3353
743	CAGACUUC CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	575	GUGGAGC C GAAGUCUG	3354
750	GAAACGGG CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	576	CGAAGAC U GCGGUUGC	3355
753	UGGGGAAC CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	577	AAAGUUGC C GUGGCCA	3356
759	GCTTCUUG CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	578	GCGGUUGC C CGAGAGGC	3357
760	GCGGCUU CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	579	GCGGUUGC C AAAGAGGC	3358
761	GCGGCUU CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	580	GCGGUUGC A AAAGAGGC	3359
768	CAAGCTUG CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	581	CAAAGGGC C CAGGCGUG	3360
769	CGAAGGCU CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	582	AAAGGGCC C AGGGGUGG	3361
770	GCGACGCC CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	583	AGAAGGCC A GCGGUUGC	3362
781	UCAAGGGC CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	584	GCGGUUGC U GCGGUUGA	3363
784	GCGGCUAG CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	585	GCGGUUGC C CGUGAGCC	3364
785	GCGGCUAG CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	586	GCGGUUGC C CUGAGCG	3365
786	GCGGCUAG CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	587	GCGGUUGC C UGAGCGGG	3366
787	UCCGGCU CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	588	GCGGUUGC U GAGCGGGA	3367
792	UCCGGCU CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	589	GCGGUUGC C CGAGCGGA	3368
804	GCGAAAG CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	590	GCGGUUGC C CGUUGGGC	3369
805	UCCGGCU CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	591	GCGGUUGC C GUGGGCCA	3370
813	AGGAGGG CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	592	GCGGUUGC A GGGGUCCU	3371
820	UCCGGCU CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	593	GAGGGGUU C UGGGGGCCA	3372
831	UCCGGCU CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	594	AGGGGUU C GGGGCCAC	3373
835	CGCGGGUG CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	595	UCCGGGU C CGACCGGG	3374
837	CGCGGGGU CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	596	GCGGUUGC C ACGGGGGC	3375
838	UCCGGGU CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	597	UCCGGGU C CGCGGCCA	3376
839	CGCGGGUG CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	598	GGGGGAC C CGGGGAGG	3377
831	UCCGGGU CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	599	GGGGGAC C CGGGCAGGA	3378
836	ACCGGUU CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	600	ACCGGGC A CGAGCGGU	3379
849	GGUACUC CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	601	GGGGGGC C GAGUACCC	3380
857	GAAACCC CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	602	CGAGUGC C GUGGGUUC	3381
856	CAACACAC CUGAUGAG GCGGUUAGGC CGAA I AAACCCAC	603	GGGGGUU C CGGGGGUG	3382
877	CGGGGAGG CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	604	GGGGGUU C CGGGGAGG	3383
879	GUCCGGCA CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	605	GGGGGUU C CGGGAGAC	3384
880	GGGGGGGC CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	606	GGGGGUU C CGGGAGCC	3385
883	GGGGGUU CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	607	GGGGGUU C AGACCGGG	3386
884	GGGGGGGU CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	608	GGGGGUU C CGACCGGG	3387
883	GUCCGGGU CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	609	GGGGGUU C CGGGGAGG	3388
889	GUCCGGGU CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	610	GGGGGUU C CGGGGAGA	3389
892	GCUCUUC CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	611	AGACCGGG C GAAGAAAC	3390
891	AAAGAGGU CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	612	GAAGAAGC C ACGGGUUC	3391
892	CAAAGAGG CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	613	AAAGAAGC A CGUCUUCG	3392
894	UCCAAAGA CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	614	GAAGCCAC C CGUUUGGA	3393
905	CUCCAAAG CUGAUGAG GCGGUUAGGC CGAA I CGGGCAG	615	AAAGCCAC C CGUUUGGA	3394

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907	CCUCUCAA CUGAUGAG GCGGUUAGGC CGAA IAGGGUGG	616	GCCACCUC U UUGGAGGG	3395
921	UGCCAGAG CUGAUGAG GCGGUUAGGC CGAA ICGCAACG	617	GGGGCGGC U CUCUGGCA	3396
933	CGUGCCAG CUGAUGAG GCGGUUAGGC CGAA IAGGCGAC	618	GUGGCGUC U CUGGCAAG	3397
925	CGCGUGGC CUGAUGAG GCGGUUAGGC CGAA IAGAGCGC	619	CGCGUCUC U GGCACGCG	3398
929	GGGGGCGG CUGAUGAG GCGGUUAGGC CGAA ICGAGAGA	620	UCUCUGGC A CGCGCCAC	3399
935	GUGGGAGU CUGAUGAG GCGGUUAGGC CGAA ICGCGUGC	621	GCAAGCGC C ACUCCAC	3400
936	GGUGGGAG CUGAUGAG GCGGUUAGGC CGAA ICGCGUGG	622	CAAGCGGC A CUCUCCAC	3401
938	UGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IUGGGCG	623	CGCGCCAC U CGCACCGA	3402
940	GAUGGGUG CUGAUGAG GCGGUUAGGC CGAA IAGGGUG	624	CGCACUC C CACCCAU	3403
941	GGAUCCCC CUGAUGAG GCGGUUAGGC CGAA IAGGUGG	625	ACACUCUC C ACCCAUC	3404
942	CGGAGGGG CUGAUGAG GCGGUUAGGC CGAA IGGAGUGG	626	CGAUCUC A CGCAUUCG	3405
944	CAGCGAU CUGAUGAG GCGGUUAGGC CGAA IUGGAGU	627	ACUCCAC C CAUUCUG	3406
945	CGACGGAU CUGAUGAG GCGGUUAGGC CGAA IUGGGAG	628	CGCGACAC C AUCCGUG	3407
946	CGCGGGCA CUGAUGAG GCGGUUAGGC CGAA IGGAGGA	629	CGCGACAC A UCGGGGG	3408
949	CGGCGCAC CUGAUGAG GCGGUUAGGC CGAA IAGGGUG	630	CGCCAUUC C GUGGGCG	3409
956	GUUCCCCG CUGAUGAG GCGGUUAGGC CGAA ICGCAAGG	631	CGGUGGGC C CGCACAC	3410
959	GGGGGGGU CUGAUGAG GCGGUUAGGC CGAA IGGGCGA	632	UGGGGGCG C AGGACAC	3411
960	CGGAGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	633	GGGGGGCG A GCAACACG	3412
963	CGCGGGGG CUGAUGAG GCGGUUAGGC CGAA ICGGGGGG	634	CGCGGAGC A CGACGGGG	3413
965	GGCGGGGU CUGAUGAG GCGGUUAGGC CGAA IUGGUGGC	635	GGCGGACG C AGCGGGGC	3414
966	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGUGG	636	GGAGGACG A CGGGGGCG	3415
974	GGAUCCCC CUGAUGAG GCGGUUAGGC CGAA ICGCGCGU	637	AGGCGGGG C CGCACAC	3416
975	UGGAGGGG CUGAUGAG GCGGUUAGGC CGAA IGGCGCG	638	GGGGGGGC C CGCAUC	3417
976	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGCGC	639	GGGGGGCG C CGAACAC	3418
977	UGGGGGAG CUGAUGAG GCGGUUAGGC CGAA IGGGGCGG	640	GGGGGGCG C CAUCACAC	3419
978	AUGU GGAU CUGAUGAG GCGGUUAGGC CGAA IGGGGCGG	641	GGGGGGCG C AUCCACAU	3420
979	GAU GGGGA CUGAUGAG GCGGUUAGGC CGAA IGGGGCGC	642	GGGGGGCG A UCCACAC	3421
982	CGCGAUGU CUGAUGAG GCGGUUAGGC CGAA IAUUUGGG	643	CGCGCAUC C ACGACGCG	3422
983	CGCGGAUG CUGAUGAG GCGGUUAGGC CGAA IGAUUGGG	644	CGCGCAUC A CAUCGCGG	3423
985	GGCGCGGA CUGAUGAG GCGGUUAGGC CGAA IUGGAUGG	645	CGACGGAC A UGGGGGG	3424
993	GAUGGGGU CUGAUGAG GCGGUUAGGC CGAA ICGCGGAU	646	AUGGGGGC C ACCACGUC	3425
994	GGAGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGCGCGA	647	UGGGGGCG A CGACGGCG	3426
996	AGGGAAGU CUGAUGAG GCGGUUAGGC CGAA IUGGGCGG	648	GGGGGGCG C AGGUCCU	3427
997	GGGGGGAG CUGAUGAG GCGGUUAGGC CGAA IGGGGCGG	649	GGGGGGCG A CGUCCCGG	3428
1002	GGGGGGAG CUGAUGAG GCGGUUAGGC CGAA IACGUGGU	650	ACACAGUC C CGGGGACA	3429
1003	GGGGGGCA CUGAUGAG GCGGUUAGGC CGAA IAGCGGG	651	CGACGGGC C UGGGACAT	3430
1004	GGGGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGAGUG	652	CGACGGCC U CGGGATAC	3431
1005	ACAAAGGG CUGAUGAG GCGGUUAGGC CGAA ICGCGAGG	653	GGGGGGAC A CGGTGUGG	3432
1014	GGGGGACAA CUGAUGAG GCGGUUAGGC CGAA ICGGGCGC	654	GGACACGG C UGGGGCGC	3433
1015	GGGGGGACA CUGAUGAG GCGGUUAGGC CGAA IGGGGCGC	655	GAACAGGC U UGGGGCGC	3434
1020	ACACGGGG CUGAUGAG GCGGUUAGGC CGAA IACAAAGG	656	GGGGGGAC C CGGGGGUG	3435
1021	UACACGGG CUGAUGAG GCGGUUAGGC CGAA I GACAAGG	657	GGGGGGAC C CGGGGGUA	3436
1022	GUACACGG CUGAUGAG GCGGUUAGGC CGAA IGGGAAAG	658	GGGGGGAC C CGGGGGAC	3437
1023	GGUACACG CUGAUGAG GCGGUUAGGC CGAA IGGGAAAA	659	GGGGGGAC C GGUGUACG	3438
1033	UUGGGCUC CUGAUGAG GCGGUUAGGC CGAA ICGUACAC	660	GGGGACGC C GAGACCAA	3439
1039	AAGUGGUU CUGAUGAG GCGGUUAGGC CGAA IUCUCGGC	661	GGGGAGAC C AAGGACU	3440
1040	GAAUGUGU CUGAUGAG GCGGUUAGGC CGAA IUGCUUGG	662	CGGAGACG A AGCACUUC	3441

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1044	AGAGGAG CUGAUGAG GCGGUUAGGC CGAA ICGUUGUC	663	GACCAAGC A CUUCCUCU	3442
1045	GUAGAGGA CUGAUGAG GCGGUUAGGC CGAA IUGGUUGG	664	CGAAGCAC U UCCUCUAC	3443
1049	GGAGGAGA CUGAUGAG GCGGUUAGGC CGAA IAGUGGU	665	AGCATUUC C UCUACUCC	3444
1050	AGGA GUAG CUGAUGAG GCGGUUAGGC CGAA IGAAGUGC	666	GCATUUC C UCUACUCC	3445
1052	UGAGTGUAG CUGAUGAG GCGGUUAGGC CGAA IAGGAAGU	667	ACUUCUC U ACUCCUC	3446
1055	GGGUAGAG CUGAUGAG GCGGUUAGGC CGAA IUAAGGAA	668	UCCUCUAC U CGUCAGGC	3447
1057	UGGTGUAG CUGAUGAG GCGGUUAGGC CGAA IAGGUAGG	669	UCUACUC C UCAGGCAG	3448
1058	GUAGGUAG CUGAUGAG GCGGUUAGGC CGAA IGAAGUAA	670	UCCUCUAC U CAGGCAGC	3449
1060	UUGGUAGG CUGAUGAG GCGGUUAGGC CGAA IAGGAGUA	671	UACUCUC A GGGGACAA	3450
1067	CUGGUUAG CUGAUGAG GCGGUUAGGC CGAA IUGGUUG	672	CAAGGAC A AGGAGCAG	3451
1074	GCGGAGC CUGAUGAG GCGGUUAGGC CGAA IUGGUUG	673	CAAGGAGC A GGGGGG	3452
1077	AGGGCGG CUGAUGAG GCGGUUAGGC CGAA IUGGUUG	674	GGAGGAGC U GGGGGGU	3453
1083	GGAGGAG CUGAUGAG GCGGUUAGGC CGAA ICGUUCG	675	GGGGGGC C UCCUCU	3454
1084	AGGAGGA CUGAUGAG GCGGUUAGGC CGAA IGGGGAG	676	CGGGGGC C UCCUCU	3455
1085	UAGGAGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGCA	677	GGGGGGC U UCCUCU	3456
1087	AGGAGGA CUGAUGAG GCGGUUAGGC CGAA IAGGGGAG	678	GGGGGGC C UCCUCU	3457
1088	GAGUAAG CUGAUGAG GCGGUUAGGC CGAA IAGGGGCG	679	GGGGGGC U UCCUCU	3458
1091	GUAGAGA CUGAUGAG GCGGUUAGGC CGAA IAGGGAGG	680	CCUCUCU C UACUAGG	3459
1092	AGGUAGA CUGAUGAG GCGGUUAGGC CGAA IGAAGGAG	681	CCUCUCU C UACUAGG	3460
1095	GAAGGUAG CUGAUGAG GCGGUUAGGC CGAA IUGGAAG	682	CCUCUCU C UACUUC	3461
1097	CAAGAGAG CUGAUGAG GCGGUUAGGC CGAA IAGGUAGA	683	UCCUCUC A CGUCUCU	3462
1100	CCUAGAG CUGAUGAG GCGGUUAGGC CGAA ICGUAGUA	684	UACUCAGC U CUCUGAGG	3463
1102	GGGGAGG CUGAUGAG GCGGUUAGGC CGAA IAGGUAG	685	CCUCUCU C UGGAGG	3464
1104	UGGGGGC CUGAUGAG GCGGUUAGGC CGAA IAGGUAG	686	CAAGCUC U GGGGGCA	3465
1110	UCAGGGCG CUGAUGAG GCGGUUAGGC CGAA ICGUAGAG	687	UCUGAGG C CGGGCG	3466
1111	GUAGGGCG CUGAUGAG GCGGUUAGGC CGAA ICGUAGAG	688	CGAGGGC C AGGGAGC	3467
1112	AGGUAGG CUGAUGAG GCGGUUAGGC CGAA IGGGUUCA	689	UGAGGGCC A GGGAGAC	3468
1113	GCGAGGCA CUGAUGAG GCGGUUAGGC CGAA ICGUUCG	690	GGGGGGC C UGGGGG	3469
1116	GGGGAGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGG	691	GGGGGGC U GAGGGGG	3470
1120	GGGGAGG CUGAUGAG GCGGUUAGGC CGAA ICGUAGGU	692	AGGGAGAC U GGGGGGG	3471
1126	AGGUAGG CUGAUGAG GCGGUUAGGC CGAA ICGUAGGU	693	ACUGGGGG U CGGGGG	3472
1134	UCUUCAGG CUGAUGAG GCGGUUAGGC CGAA ICGUUCGA	694	GGGGGGC U CGGGGG	3473
1144	AGAAAGAU CUGAUGAG GCGGUUAGGC CGAA IUGGUUAI	695	GGGGGGC C AGGGGG	3474
1145	CAGAAAGA CUGAUGAG GCGGUUAGGC CGAA IGGGUUCA	696	GGGGGGC A UGGGGGG	3475
1148	ACGGAGAA CUGAUGAG GCGGUUAGGC CGAA IAGGGGUU	697	AGGGAGAC U UGGGGGU	3476
1152	UGGAGGG CUGAUGAG GCGGUUAGGC CGAA IAAAGAGG	698	GGGGGGC U GGGGGCA	3477
1159	CAAGGGGU CUGAUGAG GCGGUUAGGC CGAA IAAAGGGG	699	GGGGGGC C AGGGGG	3478
1160	CAAGGGGU CUGAUGAG GCGGUUAGGC CGAA IGAAGGCA	700	GGGGGGC A GGGGGGG	3479
1164	GGCAUCAG CUGAUGAG GCGGUUAGGC CGAA ICGUUGAA	701	GGGGGGC C UGGGGGG	3480
1165	GGCAUCAG CUGAUGAG GCGGUUAGGC CGAA IGGGUUGA	702	GGGGGGC C UGGGGGG	3481
1166	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGGGG	703	GGGGGGC U UGGGGCA	3482
1173	GAGGUUCU CUGAUGAG GCGGUUAGGC CGAA ICAUCGAG	704	GGGGGGC C AGGGAGC	3483
1174	GGAGGGCG CUGAUGAG GCGGUUAGGC CGAA ICGAUCGA	705	GGGGGGC A CGGGGUCC	3484
1180	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGGGG	706	GGGGGGC U CGGGGG	3485
1182	ACGGGGGG CUGAUGAG GCGGUUAGGC CGAA IAGGUUCU	707	AGGGAGAC C CGGGAGG	3486
1183	AACGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGUUCA	708	GGGGGGC C CGGGGG	3487
1184	CAACCUUC CUGAUGAG GCGGUUAGGC CGAA IGGAGUCC	709	GGACUUC C CGGGGUUS	3488

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1187	GGGCAACC CUGAUGAG GCGGUUAGGC CGAA ICGGGGAG	710	CUCCCGCG A GGUUGCCC	3489
1194	GCAGGGCG CUGAUGAG GCGGUUAGGC CGAA ICAACCGG	711	CAGGUUGC C CGGCGUGC	3490
1195	GGCAGGGCG CUGAUGAG GCGGUUAGGC CGAA ICGACCGG	712	AGGUUGC C CGGCGGCC	3491
1196	GGGCAAGC CUGAUGAG GCGGUUAGGC CGAA IGGCAACG	713	GGGUUGC C CGGCGGCC	3492
1199	CUGGTTCA CUGAUGAG GCGGUUAGGC CGAA ICGGGCGA	714	UCCGGCG C CGGCGCAG	3493
1200	GCUGGGCG CUGAUGAG GCGGUUAGGC CGAA ICGGGGGC	715	GCGCGCG U CGGCGAGC	3494
1203	AGCGCGGG CUGAUGAG GCGGUUAGGC CGAA ICAAGCGG	716	CGGCGCG C CGAGCGCU	3495
1204	UAGCGCG CUGAUGAG GCGGUUAGGC CGAA ICGAGGGG	717	CGCGCGC C CAGCGCUA	3496
1205	GUAGCGCU CUGAUGAG GCGGUUAGGC CGAA IGGGGAGC	718	GGGUUGC C AGCGCUAC	3497
1206	AGUAGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGAGG	719	CGUGCGCG A CGCGCUAC	3498
1211	UCCGGCG CUGAUGAG GCGGUUAGGC CGAA ICGGGGG	720	CGGCGCG U ATGGCGAA	3499
1214	CAUUCGGG CUGAUGAG GCGGUUAGGC CGAA IUGGGGTT	721	AGCGCUAC U CGGAAAGG	3500
1218	GGCGCAUU CUGAUGAG GCGGUUAGGC CGAA ICGAGGAG	722	CUAUGGG C A AAUGCGGT	3501
1227	GAACAGG CUGAUGAG GCGGUUAGGC CGAA ICGGGCAAU	723	AAUAGGGC C CGUGGUUC	3502
1228	AGAAAAG CUGAUGAG GCGGUUAGGC CGAA ICGAGCAU	724	AUGGGGGC C CGGUUUCU	3503
1229	CAGAAATA CUGAUGAG GCGGUUAGGC CGAA IGGGGCGA	725	UCCGGGGC C CGGUUUCG	3504
1230	UAGGAAAC CUGAUGAG GCGGUUAGGC CGAA IGGGGCGC	726	GGGGGGC U CGUUCGGG	3505
1236	GTAGTTTC CUGAUGAG GCGGUUAGGC CGAA IAAACAGG	727	CGUUGGUUC U CGGACUGC	3506
1242	UCCGAAAG CUGAUGAG GCGGUUAGGC CGAA ICGUAGAA	728	UCUUGGAGC U CGUUGGGG	3507
1245	GGGTTTCA CUGAUGAG GCGGUUAGGC CGAA ICAACCGG	729	GGAGCGC U CGGGAAAC	3508
1253	CGUUGGAGU CUGAUGAG GCGGUUAGGC CGAA IUUUCCAA	730	UUGGGAAAC C AGCGCGAG	3509
1254	ACUGGCGG CUGAUGAG GCGGUUAGGC CGAA IGGGGCGA	731	UGGGAAAC A CGCGCAGU	3510
1260	AGGGGGAA CUGAUGAG GCGGUUAGGC CGAA ICGGGGGG	732	CGACGCGC A CGGCGCCU	3511
1265	CGCGGAGG CUGAUGAG GCGGUUAGGC CGAA ICAUCGGG	733	CGACGCGC C CGUACGGG	3512
1266	CGCGGUAG CUGAUGAG GCGGUUAGGC CGAA IGGCGCG	734	CGACGCGC C CGACGGGG	3513
1267	ACCGGGAA CUGAUGAG GCGGUUAGGC CGAA IGGCGCG	735	CGACGCGC C UACGGGGU	3514
1268	CGCGGUAC CUGAUGAG GCGGUUAGGC CGAA IGGGGACU	736	AGUGCGCG U AGGGGGUG	3515
1278	UCCUUGGG CUGAUGAG GCGGUUAGGC CGAA ICAACCGG	737	CGGGGGCG U CGUCAAGA	3516
1280	CGUUCUCA CUGAUGAG GCGGUUAGGC CGAA IACGACCC	738	GGGGGGCG C CGAACAGG	3517
1281	CGUUCUUC CUGAUGAG GCGGUUAGGC CGAA IGGACCG	739	GGUGCGCG U CGAAGACG	3518
1283	CGCGGUAC CUGAUGAG GCGGUUAGGC CGAA IACGACCA	740	CGUUCUCC A AGACCCAC	3519
1290	CGGGGGAG CUGAUGAG GCGGUUAGGC CGAA ICGGGCG	741	CAAGACG C CGCGCGCG	3520
1292	CAACGGGG CUGAUGAG GCGGUUAGGC CGAA IUGGCGU	742	AGACCCAC U CGGGCGCG	3521
1295	CGCGCAAC CUGAUGAG GCGGUUAGGC CGAA ICAAGCGG	743	CGACGCGC C CGGCGCGA	3522
1296	CGCGCAAC CUGAUGAG GCGGUUAGGC CGAA ICGGGCG	744	CGACGCGC C CGGGCGAG	3523
1309	CAACGGGG CUGAUGAG GCGGUUAGGC CGAA ICGGGCG	745	CGUUCUCC U CGGAGCG	3524
1306	CGACGCGC CUGAUGAG GCGGUUAGGC CGAA ICGGGCG	746	CGCGGAGC U CGGGCGAC	3525
1313	UCCGGGGG CUGAUGAG GCGGUUAGGC CGAA IACGCGAG	747	CGCGGCG C CGGGCGCA	3526
1315	CGCGGUAG CUGAUGAG GCGGUUAGGC CGAA IUGACCGG	748	CGGGCGAC C CGAGCGAC	3527
1316	GGCGCGCG CUGAUGAG GCGGUUAGGC CGAA IGGACCGG	749	CGGGCGAC C CGAGCGAC	3528
1317	GGCGGUAC CUGAUGAG GCGGUUAGGC CGAA IGGGGACG	750	GGGGCGAC C CGGAGCGG	3529
1318	CGGGGUAC CUGAUGAG GCGGUUAGGC CGAA IGGGGGAC	751	GGGGCGAC A CGAGCGGG	3530
1321	ACACGGGG CUGAUGAG GCGGUUAGGC CGAA ICGGGGGU	752	ACCGGGCG A CGGGGGGU	3531
1324	CAACGAC CUGAUGAG GCGGUUAGGC CGAA ICGGGCGG	753	CGACGCGC C CGGGCGUG	3532
1331	CGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IACACCGG	754	CGGGGGAC U CGGGCGGG	3533
1336	UUCUUCGG CUGAUGAG GCGGUUAGGC CGAA ICAACGAC	755	CGGGGGAC C CGGGAGAA	3534
1337	CUUCUCGC CUGAUGAG GCGGUUAGGC CGAA ICGACAGA	756	CGUGUGCC C CGGGAGAA	3535

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1347	AGCCCUGG CUGAUGAG GCGGUUAGGC CGAA IC'JUCUCC	757	GGAGAAGC C CCAGGGCU	3536
1348	GAGCCCUG CUGAUGAG GCGGUUAGGC CGAA IGGUUCUC	758	GAAGAAGCC C CAGGGCUC	3537
1349	A GNGCCU CUGAUGAG GCGGUUAGGC CGAA IGGCUUCU	759	AGAAAGGCC C AGGGCUCU	3538
1350	CAGAGCCG CUGAUGAG GCGGUUAGGC CGAA IGGGCUUC	760	GAAGGCCC A GGGCUCUG	3539
1351	CGGACACG CUGAUGAG GCGGUUAGGC CGAA IGGGUGGG	761	GGCAAGGGC U CUGUGGGCG	3540
1352	GGGGGCG CUGAUGAG GCGGUUAGGC CGAA IAGGGCG	762	CAAGGGCUC U GUGGGCGC	3541
1353	UCCUCCGG CUGAUGAG GCGGUUAGGC CGAA IGGGCGAC	763	GUGGGGGC C CGCGAGGA	3542
1354	GUCCUCCG CUGAUGAG GCGGUUAGGC CGAA IGGGCGCA	764	UGGGGGGC C CGGAGGAG	3543
1355	GGGCGCG CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	765	GGGGGGCC C CGAGGAGG	3544
1356	UCCUCCUC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	766	GGGGGGCC C CAGGAGGA	3545
1357	GGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	767	AGGAGGAC A CAGACCC	3546
1358	GGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	768	GAAGACAC A GACCCCG	3547
1359	GGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	769	ACAACAGC C CGGGCGC	3548
1360	GGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	770	ACACAGAC C CGGGCGC	3549
1361	GGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	771	ACAGACCC C CGGGCGCU	3550
1362	CAGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	772	CAGAAGCC C CGGGCGC	3551
1363	CGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	773	GGGGGGCG C UGGGGCG	3552
1364	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	774	GGGGGGCC U GGUGGAGC	3553
1365	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	775	GGGGGGCC A CGGGCGCC	3554
1366	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	776	GGGGGGCG U CGGGCGCC	3555
1367	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	777	GGGGGGCG U CGGGCGCC	3556
1368	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	778	AGGGGGCC C CGGAGCAC	3557
1369	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	779	GGGGGGCC C AGCACAGC	3558
1370	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	780	GGGGGGCC A GACAGCA	3559
1371	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	781	GGGGGGCC A CAGAGCC	3560
1372	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	782	GGGGGGAC A GCAAGCCC	3561
1373	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	783	AGCAACGG C A GGGGGGG	3562
1374	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	784	ACAGGAGC C CGGGGGAG	3563
1375	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	785	CAAGGAGC C CGGGGGAG	3564
1376	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	786	AGGAGGCG C UGGGGAGG	3565
1377	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	787	GGAGGCCC U CGGGGGCG	3566
1378	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	788	GGGGGGCG A CGGGGGCG	3567
1379	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	789	GGGGGGCG U CGGGGGCG	3568
1380	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	790	GGGGGGCG C CGGGGGCG	3569
1381	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	791	GGGGGGCG U CGGGGGCG	3570
1382	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	792	GGGGGGCG C CGGGGGCG	3571
1383	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	793	GGGGGGCG U CGGGGGCG	3572
1384	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	794	GGGGGGCG C CGGGGGCG	3573
1385	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	795	GGGGGGCG U CGGGGGCG	3574
1386	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	796	GGGGGGCG C CGGGGGCG	3575
1387	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	797	GGGGGGCG C CGGGGGCG	3576
1388	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	798	GGGGGGCG C CGGGGGCG	3577
1389	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	799	GGGGGGCG C AGGGCGCC	3578
1390	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	800	GGGGGGCG A CGGGGGCG	3579
1391	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	801	GGGGGGAC C UGGGGGGCG	3580
1392	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGCGCC	802	GGGGGGAC U CGGGGGCG	3581
1393	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IAGGGCGUG	803	CAGGGCGC U GGGGGCGC	3582

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1493	GUGCCUGG CUGAUGAG GCGGUUA GG CGAA ICCCCAGA	804	UCUGGGGC U CCAGGCAC	3583
1495	UUGUGCCU CUGAUGAG GCGGUUA GG CGAA IAGCCCCA	805	UGGGGCU C AGGCACAA	3584
1496	GUUGUUCG CUGAUGAG GCGGUUA GG CGAA I G AGGCC	806	GGGGCUCC A GGCACAC	3585
1500	GUUDGUUG CUGAUGAG GCGGUUA GG CGAA I G UUGGAG	807	CUCAGGC A CAACGAAC	3586
1502	GCGUUCGU CUGAUGAG GCGGUUA GG CGAA I G GGUUGG	808	CCAGGCAC A A G GAACGC	3587
1511	GAGGANG CUGAUGAG GCGGUUA GG CGAA I G GUUCGU	809	ACGAACGC C GCUUCCUC	3588
1514	CCUGAGGA CUGAUGAG GCGGUUA GG CGAA I G GGGGUJ	810	AA G GGGCG U UCCUCAGG	3589
1517	GUUCUUGA CUGAUGAG GCGGUUA GG CGAA IAA G GGG	811	GGCGUUC C UCAGGAAC	3590
1518	UGUUCUUG CUGAUGAG GCGGUUA GG CGAA I G AGGGG	812	CGCGUUC U CAGGAACA	3591
1520	GGGUUCGU CUGAUGAG GCGGUUA GG CGAA IAGGAA GG	813	GUUCUUC A CGAACACC	3592
1526	GUUCUUCG CUGAUGAG GCGGUUA GG CGAA I G UUCUCA	814	UAGGAAC A CCAA G AAG	3593
1528	ACUUCUUC CUGAUGAG GCGGUUA GG CGAA I G UUCUJ	815	AGGAACAC C AAGAAGUJ	3594
1529	GAACUUCU CUGAUGAG GCGGUUA GG CGAA I G GUUCUJ	816	GGAA C AC A AGAAGUJC	3595
1538	U G GGGAGA CUGAUGAG GCGGUUA GG CGAA IAA G UUCU	817	AGAA G UJC A UCUUCUG	3596
1541	CCCGAGGG CUGAUGAG GCGGUUA GG CGAA IAU G AA GU	818	AGUUCAC U CGUUCGGG	3597
1543	UUCGUUCG CUGAUGAG GCGGUUA GG CGAA IA G U G AA	819	UUCAUUC C CGGGGGAA	3598
1544	CUCUUCGA CUGAUGAG GCGGUUA GG CGAA I G AGAU GA	820	UCAUCUC C UGGGGAA G	3599
1545	GUUCUUCG CUGAUGAG GCGGUUA GG CGAA IGGAGA GU	821	CAUCUUC U CGGGAA G	3600
1554	GUUCGGCA CUGAUGAG GCGGUUA GG CGAA I G UUCUCC	822	GGGGAA G C UGCACAGC	3601
1558	GA G AGAUU CUGAUGAG GCGGUUA GG CGAA I G AU G UJ	823	AGGAA G C C AA G UUCU	3602
1559	CGAGAGGU CUGAUGAG GCGGUUA GG CGAA I G EA G UJ	824	AGGAAGGC A AGCUUCUG	3603
1563	CGAGGAG CUGAUGAG GCGGUUA GG CGAA I G U G GGCA	825	U G GAAGAC U CGUCUGUJ	3604
1565	CGAGGAGG CUGAUGAG GCGGUUA GG CGAA IAGGUUCC	826	CGAAGAC U CGUCUGCAG	3605
1569	GUUCUUCG CUGAUGAG GCGGUUA GG CGAA I G AGAGC	827	GUUCUUCG U CGAGGAGC	3606
1572	UCA G UCU CUGAUGAG GCGGUUA GG CGAA ICA G CGAG	828	GUUCUUCG A CGAGCUJA	3607
1578	UCCACUC CUGAUGAG GCGGUUA GG CGAA I G UUCUCC	829	CGAGGAGC U GACGUGGA	3608
1604	CGAA G GC CUGAUGAG GCGGUUA GG CGAA I G GGCGCA	830	U G GGGGAC U CGGUUCGG	3609
1609	CGAGGAGC CUGAUGAG GCGGUUA GG CGAA ICGCA G J	831	GA G GGGC U UGGGUUGG	3610
1614	UCCUUCG CUGAUGAG GCGGUUA GG CGAA I G CA G C	832	CGUUCGGC U CGCAGGA	3611
1619	U G GGGCG CUGAUGAG GCGGUUA GG CGAA I G GGAGCC	833	GGGUUCGG C A CGAGGCGA	3612
1623	AA G GGGUG CUGAUGAG GCGGUUA GG CGAA I G GGGUUC	834	CGAGGAGC C CGGGGGUJ	3613
1626	CAACGUUC CUGAUGAG GCGGUUA GG CGAA I G GUUCU G	835	CGAGGAGC C AGGGGUUG	3614
1637	CGAA G GC CUGAUGAG GCGGUUA GG CGAA I G GUUCUJ	836	AGGAGGCC A CGGGGUUG	3615
1637	CGGAACAC CUGAUGAG GCGGUUA GG CGAA I G CAACCC	837	GGGUUCGG U GUUCUUCG	3616
1644	CGUCGGGC CUGAUGAG GCGGUUA GG CGAA IAACACAG	838	GUUCUUCG C CGCCCGA G	3617
1648	UGGUUCUG CUGAUGAG GCGGUUA GG CGAA ICGGAA G	839	GUUCGGGC C CGAGAGCA	3618
1651	GGGUUCUC CUGAUGAG GCGGUUA GG CGAA I G GGGUUCG	840	GGGUUCGG A CGAACCC	3619
1655	CGAGAGCG CUGAUGAG GCGGUUA GG CGAA I G GUUCG	841	CGAGAGCG A CGUCUGCG	3620
1658	ACCGAGAC CUGAUGAG GCGGUUA GG CGAA I G GUUCU G	842	CGAGAGAC C CGUCUGGU	3621
1662	CGUCAGCG CUGAUGAG GCGGUUA GG CGAA IACGGGU G	843	CGACCGUC U CGUCUGAGG	3622
1676	CGUCGGCA CUGAUGAG GCGGUUA GG CGAA IAUCUCCU	844	AGGAGACU C UGGCCAA G	3623
1677	ACUUCGGC CUGAUGAG GCGGUUA GG CGAA IGAUCUCC	845	GGAGAGCC U CGGCAAGU	3624
1681	AGGAACGU CUGAUGAG GCGGUUA GG CGAA I G AGGU GU	846	AUCUCGGC C AA G UUCU	3625
1682	CGAGAACU CUGAUGAG GCGGUUA GG CGAA I G CCAGGA	847	CGUUCGGC A AGGUUCU G	3626
1683	CGAGUGCA CUGAUGAG GCGGUUA GG CGAA IAATU G GG	848	CGAAGUUC C CGACACUGG	3627
1689	CGAGAGGC CUGAUGAG GCGGUUA GG CGAA IGAACUUG	849	CAAGUUC U CGACUGGC	3628
1692	UCAGGCG CUGAUGAG GCGGUUA GG CGAA ICAGGAAC	850	GUUCUUCG A CGGGCGA	3629

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1694	CAUCAGC CUGAUGAG CGGUUAAGC CGAA IUGCAAGA	851	UCCUCAC U GGCUGAUG	3630
1698	CAUCAGC CUGAUGAG CGGUUAAGC CGAA ICCAGUC	852	CGACUGGC U GAUGAGUG	3631
1702	ACGUAGC CUGAUGAG CGGUUAAGC CGAA ICUGUAGC	853	CGGUAGC U GUCAGGU	3632
1705	AAGACUG CUGAUGAG CGGUUAAGC CGAA ICAGCTGC	854	CGAGUUGC U CAGGUCU	3633
1717	GAAGACCC CUGAUGAG CGGUUAAGC CGAA IAGCAUC	855	ACGUUGUC A GSUCUUC	3634
1732	UAAAGAA CUGAUGAG CGGUUAAGC CGAA IACUUCAG	856	CGUACGUC U UUCUUCUA	3635
1736	GACAUAAA CUGAUGAG CGGUUAAGC CGAA IAAAGAC	857	CGUUCUUC U UUJAUGUC	3636
1745	GGUUCGG CUGAUGAG CGGUUAAGC CGAA IACAUAAA	858	UUJAUGUC A CGGAGAC	3637
1753	UGAAACGU CUGAUGAG CGGUUAAGC CGAA IUCUUCU	859	ACGAGAC C ACGUUUCA	3638
1754	UUGAAAGC CUGAUGAG CGGUUAAGC CGAA IGUUCAG	860	CGGAGAC A CGUUCCAA	3639
1761	UGUUCUUC CUGAUGAG CGGUUAAGC CGAA IAAAGUC	861	CACGUUC A AAAGAAC	3640
1769	AAAGAGTC CUGAUGAG CGGUUAAGC CGAA IUCUUCU	862	AAAGAAC A CGCUCUUC	3641
1773	ACGUAGC CUGAUGAG CGGUUAAGC CGAA ICCUCUC	863	GAATAGC U UUUCUCU	3642
1775	GUAGAAA CUGAUGAG CGGUUAAGC CGAA IAGCUGU	864	ACGUUCU C UUUCUAC	3643
1781	CTUUCGU CUGAUGAG CGGUUAAGC CGAA IAAAMACA	865	UCUUCUUC U ACCGGAAAG	3644
1784	ATUUCUCC CUGAUGAG CGGUUAAGC CGAA IUAGAAAA	866	UUUCUAC C CGAA IAGU	3645
1796	CTUUCGU CUGAUGAG CGGUUAAGC CGAA IACAUUCU	867	AGAGUUC U CGAGCAAG	3646
1802	UUGCAAAU CUGAUGAG CGGUUAAGC CGAA ICUCUACA	868	UCUUCAGC A AGUUCCAA	3647
1809	CAAGACCC CUGAUGAG CGGUUAAGC CGAA ICACUUC	869	CAAGACCC A AAGCAUUG	3648
1814	CAUUCUCA CUGAUGAG CGGUUAAGC CGAA ICUCUACA	870	UGUACUAC A UUUGAAUC	3649
1823	UUGUAGUC CUGAUGAG CGGUUAAGC CGAA IAUUCCAA	871	UUGCAAC A GACACAC	3650
1827	UGCAAGUC CUGAUGAG CGGUUAAGC CGAA IUCUUCU	872	AAUCAGAC A GCACUUGA	3651
1830	UUCUUCAG CUGAUGAG CGGUUAAGC CGAA ICUGUUC	873	CAAGACAC A UUGAAGA	3652
1832	GUUCUUCU CUGAUGAG CGGUUAAGC CGAA IUGUCUC	874	CAACAC U UGAA BAGG	3653
1845	CGUUCAGC CUGAUGAG CGGUUAAGC CGAA IACUUCUC	875	CGAGUUC A CGUGCGGG	3654
1848	GGUUCGGC CUGAUGAG CGGUUAAGC CGAA ICGUUCAC	876	GGUUCAGC U CGGGGAGC	3655
1857	GUUCUUC CUGAUGAG CGGUUAAGC CGAA IUCUUCG	877	GGGCGAGC U CGCGGAAG	3656
1867	UUGACUUC CUGAUGAG CGGUUAAGC CGAA IUCUUCGA	878	UCGGAAAGC A CGGUCAG	3657
1874	AUGUUCUCC CUGAUGAG CGGUUAAGC CGAA IACUUCUG	879	CAAGACCC A CGCAUCAU	3658
1878	CGUUCAGC CUGAUGAG CGGUUAAGC CGAA ICGUUCAC	880	GGUUCAGC A CGACCGGG	3659
1881	GUUCUUC CUGAUGAG CGGUUAAGC CGAA IUCUUCUG	881	CAAGACAC A UGGGGAG	3660
1891	GGGGGGCC CUGAUGAG CGGUUAAGC CGAA IUCUUCG	882	GGGGGAC C AGGGCCGC	3661
1892	GGGGGGCC CUGAUGAG CGGUUAAGC CGAA ICGUUCG	883	GGGAAAGC A CGCCCGGC	3662
1896	GCACACCC CUGAUGAG CGGUUAAGC CGAA ICGUUCU	884	AGCCAGAC C CGCCUCUC	3663
1897	AGTAGGGC CUGAUGAG CGGUUAAGC CGAA ICGUUCG	885	GGGAGGGC C CGGUGGU	3664
1900	UUGACUUC CUGAUGAG CGGUUAAGC CGAA ICGUUCU	886	AGGUUCGGC C CGUGUGAC	3665
1901	GGGACAC CUGAUGAG CGGUUAAGC CGAA ICGUUCG	887	GGGAGGGC C UGGUGAG	3666
1902	AGGUUCAC CUGAUGAG CGGUUAAGC CGAA ICGUUCG	888	GGGAGGGC U CGUGAGG	3667
1905	UUGACUUC CUGAUGAG CGGUUAAGC CGAA ICAUGGGG	889	GGGAGGGC U GACUUCUA	3668
1912	GGGAGGGC CUGAUGAG CGGUUAAGC CGAA IACUUCAG	890	UUGACUUC C AGACUUCG	3669
1913	GGGGACAC CUGAUGAG CGGUUAAGC CGAA ICACUUC	891	UUGACUUC A GACUUCGC	3670
1917	GGAAAGGG CUGAUGAG CGGUUAAGC CGAA IUCUUCAC	892	GGGGAGAC U CGGUUCUA	3671
1919	CAUCACCC CUGAUGAG CGGUUAAGC CGAA IAGUUCGG	893	GGGACAC C CGGUUCAC	3672
1922	GGGGAGAC CUGAUGAG CGGUUAAGC CGAA ICGGAGUC	894	GAUCUCG U UGACGGCC	3673
1925	GUUCGGGA CUGAUGAG CGGUUAAGC CGAA IAGCUGA	895	GGGGAGAC A UGGCAAG	3674
1928	AGGUUCUC CUGAUGAG CGGUUAAGC CGAA IAUGAAC	896	GGUUCAC C CGAGGGCC	3675
1929	CAACCUUC CUGAUGAG CGGUUAAGC CGAA IGAUGAAG	897	GUUCACCC C CAAGCCUG	3676

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1930	UCAGGCUU CUGAUGAG GCGGUUAGGC CGAA IGGGAUGAA	898	UUCAUCCC C AAGCCUGA	3677
1931	GUCAAGCU CUGAUGAG GCGGUUAGGC CGAA IGGGAUGA	899	UCAUCCCC A AGCCUGAC	3678
1935	GCGCGUCA CUGAUGAG GCGGUUAGGC CGAA IGGGGGGG	900	CCCCAAGC C UGACGGGC	3679
1936	AGCCCGUC CUGAUGAG GCGGUUAGGC CGAA IGGGGGGG	901	CCCCAAGC U GACGGGC'J	3680
1944	UCGGGCGC CUGAUGAG GCGGUUAGGC CGAA IGGGGUCA	902	UGACGGGC U GCGGGCGA	3681
1950	UCACAAUC CUGAUGAG GCGGUUAGGC CGAA IGGGGCGC	903	GCUGCGGGC C GAUUGUGA	3682
1961	GUAGGUCA CUGAUGAG GCGGUUAGGC CGAA IGGGGCAA	904	UUGUGAAC A UGGACUAC	3683
1967	CAAGGUAGU CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	905	ACAGGGAC U ACGUGGU	3684
1981	AAACGTTG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	906	GUUGGAGC C AAGACGUU	3685
1982	GAACGTTG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	907	UUGGAGGC A GAAGGUU	3686
1991	TTTGTGTC CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	908	GAAGGGTC C GCAAGAGA	3687
1994	TTTGTGTC CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	909	CGUUCGCG A GAGAAAAG	3688
2008	AGAAGGUC CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	910	AAAGGGGC C GAGGGGUU	3689
2016	GGGAGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	911	CGAGGGCG U GACGGCGA	3690
2018	GGGAGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	912	AGGCGUC A CCGGGAGG	3691
2020	AGGCGUC CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	913	CGUUCAC C UGAGGGGU	3692
2021	AGGCGUC CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	914	GUUCACCG U CGAGGGCG	3693
2035	GGGAGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	915	GGGAGGCG A CGGTTGAG	3694
2037	GGGAGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	916	GAAGGGCG U GUUGAGCG	3695
2042	GGGAGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	917	CGACGGCG A GCGGGCG	3696
2049	GGGAGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	918	CGAGGGCG U CAACUACG	3697
2051	GGGAGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	919	GGGAGGCG A ACUACGAG	3698
2054	GGGAGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	920	GGGAGGCG U ACGGGCG	3699
2072	GGGAGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	921	GGGGGGCG C CGGGCG	3700
2072	GGGAGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	922	GGGGGGCG C CGGGCG	3701
2074	GGGAGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	923	GGGGGGCG C GGGGGCG	3702
2078	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	924	GGGGGGCG U UGGGGCG	3703
2079	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	925	GGGGGGCG U CGGGGGCG	3704
2081	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	926	GGGGGGCG C UGGGGCG	3705
2082	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	927	GGGGGGCG U GGGGGCG	3706
2089	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	928	GGGGGGCG U CGGGGGCG	3707
2090	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	929	GGGGGGCG U CGGGGGCG	3708
2093	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	930	GGGGGGCG U GGGGGCG	3709
2097	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	931	GGGGGGCG U GGGGGCG	3710
2102	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	932	GGGGGGCG U CGGGGGCG	3711
2103	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	933	GGGGGGCG U CGGGGGCG	3712
2114	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	934	GGGGGGCG U CGGGGGCG	3713
2115	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	935	GGGGGGCG U CGGGGGCG	3714
2117	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	936	GGGGGGCG A CGGGGGCG	3715
2122	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	937	GGGGGGCG C CGGGGGCG	3716
2123	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	938	GGGGGGCG U CGGGGGCG	3717
2129	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	939	GGGGGGCG A CGGGGGCG	3718
2131	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	940	GGGGGGCG C CGGGGGCG	3719
2132	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	941	GGGGGGCG U CGGGGGCG	3720
2139	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	942	GGGGGGCG U CGGGGGCG	3721
2152	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	943	GGGGGGCG C CGGGGGCG	3722
2153	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	944	GGGGGGCG C ACGGGGGCG	3723

Table IV

2154	GCGGGUCC CUGAUGAG GCGGUUAGGC CGAA IGGCDEGC	945	GCGGGCCC A GGACCGGC	3724
2159	AGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGCDEGG	946	CCGAGGAC C CGCCGCCU	3725
2160	CAGGGGGC CUGAUGAG GCGGUUAGGC CGAA IGGCDEGG	947	CCAGGAC C GCGGCCUG	3726
2163	GCUCAGGC CUGAUGAG GCGGUUAGGC CGAA IGGCDEGC	948	GGACCGGC C GCGUGAGC	3727
2166	ACAGCUCA CUGAUGAG GCGGUUAGGC CGAA IGGCDEGG	949	CGCGGGC C UGAGCUGU	3728
2167	UACAGCUU CUGAUGAG GCGGUUAGGC CGAA IGGCDEGG	950	CGCGGGC C U GAGCUGA	3729
2172	CAAGUAC CUGAUGAG GCGGUUAGGC CGAA IGGCDEGC	951	GCGUGAGC U UACUUG	3730
2177	CGUCAGAA CUGAUGAG GCGGUUAGGC CGAA IUGACGU	952	ACGUUAC U UGGUCAAG	3731
2182	AUCUACGU CUGAUGAG GCGGUUAGGC CGAA IACAAAGU	953	ACUJUGUC A AGGUGGAU	3732
2210	GCGGGAUU CUGAUGAG GCGGUUAGGC CGAA IUGUUGA	954	CGUACGAC A CGAUCCCC	3733
2212	UCCGGGAA CUGAUGAG GCGGUUAGGC CGAA IUGUUGA	955	UACGACAC C AUCCCCA	3734
2213	CGGGGGAA CUGAUGAG GCGGUUAGGC CGAA IUGUUGU	956	ACGACAC C UCCCCCAG	3735
2216	GUUUCGGG CUGAUGAG GCGGUUAGGC CGAA IAGGGUGU	957	ACACCAUC C CGCAGGAC	3736
2217	UGUUCGGG CUGAUGAG GCGGUUAGGC CGAA IGAUGGUG	958	CGACAUCC C CGACGACA	3737
2218	UUCGGGUG CUGAUGAG GCGGUUAGGC CGAA IGGAUUGU	959	ACACAUCC C CAGGACAG	3738
2219	CGUUCGGU CUGAUGAG GCGGUUAGGC CGAA IGGAUUGG	960	CGACAUCC C AGGACAGG	3739
2220	CGUUCGGU CUGAUGAG GCGGUUAGGC CGAA IGGGGAUG	961	CAUUCGGC A CGAUCAGG	3740
2225	CGUUCGGU CUGAUGAG GCGGUUAGGC CGAA IGGUUGG	962	CGACGGAC A GGGUCACG	3741
2229	CGUUCGGU CUGAUGAG GCGGUUAGGC CGAA IGGUUGG	963	GGACAGGC U CGCGGAGG	3742
2231	GAUCUUCG CUGAUGAG GCGGUUAGGC CGAA IAGGUUGU	964	ACACGGUC A CGGAGGUC	3743
2240	CGUUCGGU CUGAUGAG GCGGUUAGGC CGAA IACCUUCG	965	CGGAGGUC A UGGCCAGG	3744
2245	AUCUACGU CUGAUGAG GCGGUUAGGC CGAA ICGAUAC	966	GUCAUCGC C AGCAUCAU	3745
2246	GAUCUUCG CUGAUGAG GCGGUUAGGC CGAA ICGGUAGA	967	UCAUCGGC A CGCAUCAU	3746
2249	UUCGUAGA CUGAUGAG GCGGUUAGGC CGAA ICGGGUGA	968	UCCGUCAG C UCAUCAAA	3747
2252	GGGUUCGG CUGAUGAG GCGGUUAGGC CGAA IAUUCGG	969	CCAGCAUC A UCAAAACG	3748
2255	UUCGGGUG CUGAUGAG GCGGUUAGGC CGAA IAUUAGG	970	CGACUACU A AACCCGAG	3749
2259	UUCGGGUG CUGAUGAG GCGGUUAGGC CGAA IUUUAGG	971	CAUCAAAC C CGAACACA	3750
2260	GUUCGGUG CUGAUGAG GCGGUUAGGC CGAA IGUUUGAU	972	AUCAAACG C CGAACACG	3751
2261	CGUUCGGU CUGAUGAG GCGGUUAGGC CGAA IGGUUGA	973	UCAAAACG C AGAACACG	3752
2262	ACGUUCGU CUGAUGAG GCGGUUAGGC CGAA IGGGUUUG	974	CAAAACCC C GAAACACG	3753
2267	CGACGUAC CUGAUGAG GCGGUUAGGC CGAA IGGUUGG	975	CCACAGAAC A CGUACUGC	3754
2273	ACCGACGC CUGAUGAG GCGGUUAGGC CGAA IUGACGU	976	ACACGUAC U CGCGCGGU	3755
2290	UUCGGGAC CUGAUGAG GCGGUUAGGC CGAA ICAACACG	977	CGGUUAUC C CGGUUCCA	3756
2297	CGCGGUUC CUGAUGAG GCGGUUAGGC CGAA IACCAACG	978	CGGUGGUC C AGAAGGGC	3757
2393	CGCGGUUC CUGAUGAG GCGGUUAGGC CGAA IGAACACG	979	CGUGGUUC A GAAAGGCG	3758
2305	CGACGGGC CUGAUGAG GCGGUUAGGC CGAA IGGUUGG	980	CGAAGGCG C CGCGAUGG	3759
2308	UUCGGGUG CUGAUGAG GCGGUUAGGC CGAA IGGGGGU	981	AAGGGCGC C CAUGGGCA	3760
2309	CGCGGUUC CUGAUGAG GCGGUUAGGC CGAA IGGGGGU	982	AGGGCGGC C AUGGGGAC	3761
2311	CGUUCGGU CUGAUGAG GCGGUUAGGC CGAA IGGGGGU	983	CGCGGGCG A UGGGGACG	3762
2314	UCCGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGGGU	984	CCACGGGC A CGGGCGCA	3763
2321	CGCGGUUC CUGAUGAG GCGGUUAGGC CGAA IACGGUC	985	CGCAACGU C CGAAGGGC	3764
2324	GAAGGGGU CUGAUGAG GCGGUUAGGC CGAA IGGGGGU	986	ACGGGGCG A AGGGGUUC	3765
2329	CGCGGUUC CUGAUGAG GCGGUUAGGC CGAA IGGGGGU	987	CGCAAGGC C UCGAAGAG	3766
2330	CGCGGUUC CUGAUGAG GCGGUUAGGC CGAA IGGGGGU	988	CGAAGGGC U CGAAGAGC	3767
2333	CGGGGUUC CUGAUGAG GCGGUUAGGC CGAA IAGGGGU	989	AGGGGUUC A AGAGCCAC	3768
2339	AGAGACGU CUGAUGAG GCGGUUAGGC CGAA ICGUUCGA	990	CGAAGGGC C ACGUUCGU	3769
2340	UAGAGACG CUGAUGAG GCGGUUAGGC CGAA IGCUCUUG	991	CAAGAGCC A CGUCUCUA	3770

Table IV

2345	CAAGGUAG CUGAUGAG GCGGUUAGG ₂ CGAA IACGUUGC	992	GCCACGUC U CUACCUUG	3771
2347	GUCAAGGU CUGAUGAG GCGGUUAGG ₂ CGAA IAGACGUG	993	CAAGGUCUC U ACCUUGAC	3772
2350	UCUGUCAA CUGAUGAG GCGGUUAGG ₂ CGAA IUGAGAC	994	GUUCUCAAC C UUGACAGA	3773
2351	GUCUGUCA CUGAUGAG GCGGUUAGG ₂ CGAA IGGAGAGA	995	UCUCUACC U UGACAGAC	3774
2356	UGGAGGGC CUGAUGAG GCGGUUAGG ₂ CGAA IUCAGGU	996	ACCUUGAC A GACCUCCA	3775
2360	CGGCUGGA CUGAUGAG GCGGUUAGG ₂ CGAA IUCAGGU	997	UGACAGAC C UCCAGCGG	3776
2361	ACGGGUAG CUGAUGAG GCGGUUAGG ₂ CGAA IGGAGGU	998	GAAGACAC U CGAGCGGU	3777
2363	GUACGGCU CUGAUGAG GCGGUUAGG ₂ CGAA IAGGUG	999	CAAGACAC C AGCGGUAC	3778
2364	UGUACGGC CUGAUGAG GCGGUUAGG ₂ CGAA IGGAGGU	1000	AGACCUUC A GCGGUACA	3779
2367	GCACGUAC CUGAUGAG GCGGUUAGG ₂ CGAA ICGGAG	1001	CCUCUAGC C GUACAUAC	3780
2372	UCUGUCAA CUGAUGAG GCGGUUAGG ₂ CGAA IUCAGGU	1002	AGCGGUAC A UCGGATAG	3781
2379	GCACGAAC CUGAUGAG GCGGUUAGG ₂ CGAA IUCACAU	1003	CAUCGAC A GUUCGUUG	3782
2384	UCUGUCAA CUGAUGAG GCGGUUAGG ₂ CGAA ICCCAGAA	1004	UUCGGGGC U CACCUUGA	3783
2391	CGUCGAGG CUGAUGAG GCGGUUAGG ₂ CGAA IAGGACG	1005	CCUCUUC A CGUCGAGG	3784
2393	UCUCUAC CUGAUGAG GCGGUUAGG ₂ CGAA IUGAGAC	1006	UGGUCAC C UCGAGGAG	3785
2394	UCUCUAG CUGAUGAG GCGGUUAGG ₂ CGAA IUGAGAC	1007	GGCUCAC U CGAGGAGA	3786
2397	UCUCUUC CUGAUGAG GCGGUUAGG ₂ CGAA ICAAGGUA	1008	UCACCGC A GGAGACAA	3787
2404	AGCGGGCU CUGAUGAG GCGGUUAGG ₂ CGAA IUCUGUG	1009	CAAGGAC C AGCGGUU	3788
2405	CGCGGGC CUGAUGAG GCGGUUAGG ₂ CGAA IGGUCGU	1010	AGGAGAC A GCGCGGUG	3789
2408	UCUCAGCG CUGAUGAG GCGGUUAGG ₂ CGAA IUCGGGU	1011	AGACGAC C CGUCGAGG	3790
2409	CCUCUAGC CUGAUGAG GCGGUUAGG ₂ CGAA IGGGGUC	1012	GAACAGGC C CGUGAGGG	3791
2412	CAUCUUC CUGAUGAG GCGGUUAGG ₂ CGAA ICGGGUG	1013	CAUCGAC U GAGCGAUG	3792
2422	AUGACGAC CUGAUGAG GCGGUUAGG ₂ CGAA ICAUCGU	1014	AGGAGAC C CGUCGACAU	3793
2424	UCUCUUC CUGAUGAG GCGGUUAGG ₂ CGAA IACGAGG	1015	CGCGGUAC A UCGAGGAG	3794
2436	AGGACGU CUGAUGAG GCGGUUAGG ₂ CGAA ICUCCGAU	1016	CAUCGAC A GAGCUCCU	3795
2441	CAGGGAGG CUGAUGAG GCGGUUAGG ₂ CGAA ICGUCGU	1017	AGCAAGAC U CCUCUCCUG	3796
2443	UCUCAGGA CUGAUGAG GCGGUUAGG ₂ CGAA IACGUUC	1018	CAAGACAC C UCCUUGAA	3797
2444	AUUCAGGG CUGAUGAG GCGGUUAGG ₂ CGAA IGAUCGU	1019	AGACGUUC U CCUCGAAU	3798
2446	UCAUUCAG CUGAUGAG GCGGUUAGG ₂ CGAA IAGGACGU	1020	ACCUUCUC C CGUGAUGA	3799
2447	UCUCUUC CUGAUGAG GCGGUUAGG ₂ CGAA IGAAGACG	1021	GUUCUUC C CGAAUGAG	3800
2448	CCUCAUUC CUGAUGAG GCGGUUAGG ₂ CGAA IGGAGGAG	1022	CCUCUCCU U GAAUGAGG	3801
2458	CCACGUUC CUGAUGAG GCGGUUAGG ₂ CGAA ICGUCGU	1023	AAUGAGGC C AGCAUGGG	3802
2459	CGCAUCGG CUGAUGAG GCGGUUAGG ₂ CGAA ICGGUCAU	1024	AUGAGGC A CGACGGGC	3803
2461	GGGGCCAC CUGAUGAG GCGGUUAGG ₂ CGAA ICGGGGU	1025	AGGCGAC A GUGGGCUC	3804
2468	GUUCGAGA CUGAUGAG GCGGUUAGG ₂ CGAA ICCCACUG	1026	CGACGGGC C UCGUCGAT	3805
2469	GUUCGAA CUGAUGAG GCGGUUAGG ₂ CGAA ICGGATUG	1027	CGUGGGGC U CGUCGAGG	3806
2471	GAAGGGCA CUGAUGAG GCGGUUAGG ₂ CGAA IAGGUCAC	1028	GGGGCCU U CGUCGAGT	3807
2480	GGGUAGGA CUGAUGAG GCGGUUAGG ₂ CGAA IACGUUGA	1029	UGGAGGC U CGCCAGG	3808
2484	GAAGGCGA CUGAUGAG GCGGUUAGG ₂ CGAA IAAGACGU	1030	ACGUUCUC C UAGCTUUC	3809
2484	UGAAGGCU CUGAUGAG GCGGUUAGG ₂ CGAA IGAAGACG	1031	CGUCUCCU U AGCGUUC	3810
2484	GCACGAGA CUGAUGAG GCGGUUAGG ₂ CGAA ICGUAGGA	1032	CCUCUACG U UCAUGUGT	3811
2492	GGGGGACA CUGAUGAG GCGGUUAGG ₂ CGAA IAAGCGUA	1033	UACGUUCU A CGUCGAC	3812
2494	GGCGGGGU CUGAUGAG GCGGUUAGG ₂ CGAA ICACAUCA	1034	UCAUCGGC C AGCAUCG	3813
2499	CGCGGGGG CUGAUGAG GCGGUUAGG ₂ CGAA ICGACAU	1035	CAUCGAC A CGACGGCG	3814
2501	CAAGGGGU CUGAUGAG GCGGUUAGG ₂ CGAA IUGGTCAC	1036	UGUGGGAC C AGCGCGUG	3815
2502	GCACGAGG CUGAUGAG GCGGUUAGG ₂ CGAA ICGGGCAC	1037	GUCCGACC A CGCGGUG	3816
2506	AUGGCGAC CUGAUGAG GCGGUUAGG ₂ CGAA ICGGGUG	1038	CACCAACG C GUCCGCAU	3817

Table IV

2513	GGGGUGA CUGAUGAG GCGGUUAGGC CGAA ICGCAACGG	1039	CGUGUGGC A UCAGGGGC	3818
2514	CUUGCCG CUGAUGAG GCGGUUAGGC CGAA IACGGGCA	1040	UGGCGCAUC A GGGGCAAG	3819
2521	GUAGGACU CUGAUGAG GCGGUUAGGC CGAA ICCCCUGA	1041	UAGGGGGC A AGUCCUAC	3820
2522	UGGACGUA CUGAUGAG GCGGUUAGGC CGAA IACUUGGC	1042	GGCAAGUC C UACGUCCA	3821
2523	CGGGACGU CUGAUGAG GCGGUUAGGC CGAA IGGACUCC	1043	CGAAGUCC U AUGGUCCAG	3822
2534	CGGGACGU CUGAUGAG GCGGUUAGGC CGAA IACGUAGG	1044	CGUACGUC C AGUGGCCAG	3823
2535	CGGGGGCA CUGAUGAG GCGGUUAGGC CGAA IGGGUAG	1045	CGAAGUCC A GUCCAGGG	3824
2541	GAUCGGCG CUGAUGAG GCGGUUAGGC CGAA ICAUGGA	1046	UCAAGUGC C AGGGGAUC	3825
2541	GGAGGCG CUGAUGAG GCGGUUAGGC CGAA IGGACUCC	1047	CGAAGUCC A GGGGAUCC	3826
2549	GGGGUGCG CUGAUGAG GCGGUUAGGC CGAA IAUCCCCU	1048	AGGGGAUC C CGCAAGGGC	3827
2550	AGGUCGG CUGAUGAG GCGGUUAGGC CGAA IGAUGGG	1049	GGGGAGUC C CGAGGGGU	3828
2553	UGGAGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGAU	1050	GAUCGGCG A GGGGUCCA	3829
2553	GGAGGAG CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	1051	CGCAAGGC U CGAUCCUC	3830
2560	GAAGGGAU CUGAUGAG GCGGUUAGGC CGAA IAGGGCG	1052	AGGGGGUC C AUCCUCUC	3831
2561	GGAGGAG CUGAUGAG GCGGUUAGGC CGAA IGGGGGU	1053	AGGGGUCC A UCCUCUCC	3832
2564	CGGGGAG CUGAUGAG GCGGUUAGGC CGAA IAGGGAG	1054	GUCCAUCC C UCCUCCAG	3833
2565	GGGGGGAG CUGAUGAG GCGGUUAGGC CGAA IGAUGGG	1055	CGCAUCGU U CGUCCAGC	3834
2567	CGGGGGAG CUGAUGAG GCGGUUAGGC CGAA IAGGGAG	1057	CGAUCCUC U CGACGGUG	3835
2569	AGGAGGCG CUGAUGAG GCGGUUAGGC CGAA IAGAGGAU	1057	AUCUCCUC C AGGGGU	3836
2571	GGAGGAG CUGAUGAG GCGGUUAGGC CGAA IGGAGAGA	1058	CGUCCUC A CGGGGU	3837
2574	UGGAGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGAG	1059	UUCACGGC U CGUCUGCA	3838
2577	GGGGGGAG CUGAUGAG GCGGUUAGGC CGAA IAGGGUG	1060	CGAGGUGC U CGCAGGCC	3839
2579	CGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IAGCAAGG	1061	CGGGGGUC U CGAGGGUG	3840
2582	CGCAAGGC CUGAUGAG GCGGUUAGGC CGAA IAGAGGCC	1062	UGGUCUGC A CGGGGGC	3841
2585	GUAGGAGA CUGAUGAG GCGGUUAGGC CGAA IUGGGAGA	1063	UGGGGAGC C UGGGGUAC	3842
2586	CGUAGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGGAG	1064	UGGGAGGC U GUCCUACG	3843
2591	GUUGGGGU CUGAUGAG GCGGUUAGGC CGAA ICAACAGG	1065	CGGGGGUC U ACGGGGAC	3844
2600	GUUUCGCA CUGAUGAG GCGGUUAGGC CGAA IUGGGGU	1066	AGGGGGAC A UGGAGAAC	3845
2609	AAAGAAGU CUGAUGAG GCGGUUAGGC CGAA IUUCUCC	1067	UGGAGAAC A AGGGGU	3846
2613	CGGGGGAC CUGAUGAG GCGGUUAGGC CGAA I GUUUCG	1068	GAACAAAC U GUUUCGGG	3847
2640	CGAGGAGC CUGAUGAG GCGGUUAGGC CGAA ICGGGGU	1069	GGGGGGGC U CGUCUGCC	3848
2643	AAAGGAGG CUGAUGAG GCGGUUAGGC CGAA ICAACGGG	1070	GGGGGGCG U CGGGGGU	3849
2645	AAAGGAGG CUGAUGAG GCGGUUAGGC CGAA IAGGGAG	1071	GGGGGGUC C UGGGGU	3850
2645	AAAGGAGG CUGAUGAG GCGGUUAGGC CGAA IGGGGAG	1071	CGGGGGUC U CGGGGU	3851
2656	AAAGGAGG CUGAUGAG GCGGUUAGGC CGAA IAAAUCU	1072	AUGAUUC U UGGGGUG	3852
2677	AGGGGGAG CUGAUGAG GCGGUUAGGC CGAA IUCACCAA	1074	UUGGGAGC A CGGGGU	3853
2679	UGGAGGAG CUGAUGAG GCGGUUAGGC CGAA IUGGGAC	1074	GGGGACAC C UCAACCUA	3854
2681	GUAGGAGG CUGAUGAG GCGGUUAGGC CGAA IGGGGUAC	1076	GUAGACAC U CACCUAC	3855
2682	GGGGGGAG CUGAUGAG GCGGUUAGGC CGAA IAGGGUG	1077	GAACCUAC A CGGGGGAC	3856
2684	GGGGGGAG CUGAUGAG GCGGUUAGGC CGAA IUGGGUG	1078	CGGGGGAC C CGACCCAC	3857
2685	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA I GUUAGGU	1079	ACCUACAC U CGGGGGAG	3858
2687	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IAGGGUG	1080	CGACCUAC A CGGGGGCG	3859
2689	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IUGGGUG	1081	CGGGGGAC C CGGGGAA	3860
2690	GGGGGGGU CUGAUGAG GCGGUUAGGC CGAA IGGGGGU	1082	ACCUACAC C CGGGGAAA	3861
2691	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGGAG	1083	CGGGGGAC A CGGGAAAA	3862
2701	GGGGGGAA CUGAUGAG GCGGUUAGGC CGAA IGUUUCG	1084	CGGGGGAC C UGGGGAG	3863
2702	GGGGGGGA CUGAUGAG GCGGUUAGGC CGAA IGUUUCG	1085	CGAAAACC U UGGGGAG	3864

Table IV

2705	GGUCCUGA CUGAUGAG GCGGUUAGGC CGAA IAGGUUU	1086	AAACCUUC C UCAGGACC	3865
2706	GGGUCCUG CUGAUGAG GCGGUUAGGC CGAA IGAAGGUU	1087	AACCUUCC U CAGGACCC	3866
2708	CAGGGGUCC CUGAUGAG GCGGUUAGGC CGAA IAGGAAGG	1088	CC'JUCCUC A GGAC'CCUG	3867
2713	CGGACCCAG CUGAUGAG GCGGUUAGGC CGAA I'CCUJGAG	1089	C'JCAGGAC C CUGGUCCG	3868
2714	UCCGGACCA CUGAUGAG GCGGUUAGGC CGAA IGGUCCJA	1090	'JCAGGAC C UGGGUCCGA	3869
2715	CUCCGACCC CUGAUGAG GCGGUUAGGC CGAA IGGGUCCJG	1091	CAAGGACCC U GGGUCCGAG	3870
2720	GAACCCG CUGAUGAG GCGGUUAGGC CGAA IACCAAGG	1092	CCCTGGGJC C GAGGUGUC	3871
2729	AUACUCCAG CUGAUGAG GCGGUUAGGC CGAA IACACCUJ	1093	GGGGUGGU C CUGAGGUAU	3872
2730	CAAACTCA CUGAUGAG GCGGUUAGGC CGAA IACACCUJ	1094	AGGUGUC C UGAGUAUG	3873
2731	CCAUACUC CUGAUGAG GCGGUUAGGC CGAA IGGACACC	1095	GGGUCCUC U GAGGUAUJG	3874
2741	CA'ACCGC CUGAUGAG GCGGUUAGGC CGAA I'CAUACUJ	1096	A'GUAJGGC U GGGUGGUG	3875
2753	UJUJCC CUGAUGAG GCGGUUAGGC CGAA IJUJACCA	1097	U'GGUGAAC U UGGGAAAG	3876
2764	UJUJACCC CUGAUGAG GCGGUUAGGC CGAA IJUJCCG	1098	GGAAAGAC A GUGGUCAA	3877
2774	UJACGGGA CUGAUGAG GCGGUUAGGC CGAA IJUJACCA	1099	U'GGUGAAC U UGGUGUA	3878
2777	UJUJACAG CUGAUGAG GCGGUUAGGC CGAA IAGGUJCA	1100	U'GAACUUC C CUGUAGAA	3879
2778	UJUJACCA CUGAUGAG GCGGUUAGGC CGAA IGAAGGUJ	1101	GAACUUC C UGUAGAA	3880
2779	UJUJUJAC CUGAUGAG GCGGUUAGGC CGAA IGGAAJUJ	1102	AA'UJUJCC U GUAGAA	3881
2794	CCACCCAG CUGAUGAG GCGGUUAGGC CGAA ICGUUC	1103	GAAGGACCC C UGGGUCCG	3882
2795	CCACCCCA CUGAUGAG GCGGUUAGGC CGAA IGGGUUCG	1104	ACGAGGCC C UGGGUCCG	3883
2796	UCCGACCC CUGAUGAG GCGGUUAGGC CGAA IGGGUUCG	1105	CGGGGCC C UGGGUCCG	3884
2804	AAAACCGG CUGAUGAG GCGGUUAGGC CGAA ICAACCCCA	1106	GGGGGGGC A CGGCGUJLJ	3885
2809	U'GAACAAA CUGAUGAG GCGGUUAGGC CGAA ICGUUC	1107	GGCACGGC U UJUJUJCA	3886
2817	CCGGCAJC CUGAUGAG GCGGUUAGGC CGAA IAAACAAA	1108	UJUJUJUC A GAUCCCGG	3887
2833	GGGGGGCC CUGAUGAG GCGGUUAGGC CGAA ICAUJUGA	1109	UCAGAUJC C GGCGCAOG	3888
2837	AGGCGGUG CUGAUGAG GCGGUUAGGC CGAA ICGGGCAU	1110	AUGGCGGCG C CACGGGCCU	3889
2838	UAGGCGGU CUGAUGAG GCGGUUAGGC CGAA ICGGGCGA	1111	U'GGCGGCG C ACGGCCUA	3890
2839	AUAGGCGG CUGAUGAG GCGGUUAGGC CGAA IGGGGCGI	1112	GGGGGGCC A CGGGCCUJ	3891
2834	GGGGAAJA CUGAUGAG GCGGUUAGGC CGAA ICGGGGGG	1113	GGGACGGC C UAUUCCCG	3892
2835	AGGGGAAU CUGAUGAG GCGGUUAGGC CGAA IGGGGGG	1114	GGGACGGC U AUUCCCGU	3893
2840	GGACCCAG CUGAUGAG GCGGUUAGGC CGAA IAAUJAGG	1115	GGGAAUUC C CGGGGGG	3894
2841	GGGACCCAG CUGAUGAG GCGGUUAGGC CGAA IGAUJAGG	1116	GGGAAUUC C CGGGGGG	3895
2842	GGGACCCCA CUGAUGAG GCGGUUAGGC CGAA IGAUUAAG	1117	GGGAAUUC C UGGGCGG	3896
2843	GGGGCCAG CUGAUGAG GCGGUUAGGC CGAA IGGGAAUA	1118	U'AUJUCCU U GGUGGGCG	3897
2852	GGGGACCA CUGAUGAG GCGGUUAGGC CGAA ICGGCAJ	1119	GGGGGGCG C UGGCGCG	3898
2853	GGGGACCC CUGAUGAG GCGGUUAGGC CGAA ICGGCGAC	1120	GGGGGGCC U CGGGCGG	3899
2856	UAGGCGG CUGAUGAG GCGGUUAGGC CGAA ICAAGGGCG	1121	GGGGGGCG U CGGGGAA	3900
2859	GGGGAAJC CUGAUGAG GCGGUUAGGC CGAA ICAAGCAGG	1122	GGGGCGC U GGACACCI	3901
2866	AGGGGGCG CUGAUGAG GCGGUUAGGC CGAA ICAAGCAGG	1123	GGGGAAJC C CGGGCCCG	3902
2867	CA'GGGUCC CUGAUGAG GCGGUUAGGC CGAA IGAUACCA	1124	GGGGAUAC C GGACCCCG	3903
2872	ACCCGCCAG CUGAUGAG GCGGUUAGGC CGAA IUGGGGJ	1125	ACCGGAC C CGGGGGU	3904
2873	CCACCCCA CUGAUGAG GCGGUUAGGC CGAA IGGGGGG	1126	GGGGACCC C UGGGGGG	3905
2874	GGACCCCG CUGAUGAG GCGGUUAGGC CGAA IGGGGGG	1127	GGGGACCC U GGAGGGGG	3906
2883	AGGGCGJC CUGAUGAG GCGGUUAGGC CGAA ICAACCUCC	1128	GGGGGGCG A GAGGCCAU	3907
2891	GGGGGGGU CUGAUGAG GCGGUUAGGC CGAA IGGGGCCU	1129	AGAGGCG U ACUCCAGC	3908
2894	ADAGCGGG CUGAUGAG GCGGUUAGGC CGAA IUGGUCCG	1130	GGGACCC U CGAGCUAU	3909
2896	GGAUAGCU CUGAUGAG GCGGUUAGGC CGAA IASJAGCG	1131	GAUACUC C AGCUAUGC	3910
2897	GGCAUAGC CUGAUGAG GCGGUUAGGC CGAA IGAUAGGU	1132	ACUACUCC A GCUAUCC	3911

Table IV

2900	CGGGCAU CUGAUGAG GCGGUUAGGC CGAA ICUGGAGU	1133	ACUCCAGE U AUGCCCGG	3912
2905	GAGGUUCG CUGAUGAG GCGGUUAGGC CGAA ICAJAGCU	1134	AGCUAUGC C CGGACCUUC	3913
2906	GGAGGUUCG CUGAUGAG GCGGUUAGGC CGAA ICGCATAGC	1135	GCUGAUGC C CGGACCUCC	3914
2911	CUGAUGGA CUGAUGAG GCGGUUAGGC CGAA IUCGGGGC	1136	GGCGGAC C UCCAUCAAG	3915
2912	UCUGAUGGG CUGAUGAG GCGGUUAGGC CGAA ICGUGGG	1137	CGCGGAC U CCAUCAGA	3916
2914	GCUCUGGU CUGAUGAG GCGGUUAGGC CGAA IAGGUUCG	1138	CGGACTTC C AUCAAGAGC	3917
2915	GGCTCUGA CUGAUGAG GCGGUUAGGC CGAA IAGGUUCG	1139	GGACCUCC A UCAGAGCC	3918
2918	ACUGGCGU CUGAUGAG GCGGUUAGGC CGAA IAGGAGG	1140	CCUCACAU A GAGCCAGU	3919
2923	GUAGAGACU CUGAUGAG GCGGUUAGGC CGAA ICGUCAU	1141	AUCAGAGC C AGUCUCAC	3920
2924	GGUAGAGA CUGAUGAG GCGGUUAGGC CGAA ICGUUGA	1142	UCAGAGGC A GUCUCACC	3921
2928	UGAAGGUU CUGAUGAG GCGGUUAGGC CGAA IAGGUUCU	1143	AGUCAGUC U CACCUUCA	3922
2930	GUAGAAAG CUGAUGAG GCGGUUAGGC CGAA IAGGUUGG	1144	UCAGUUCU A CGUUCAAC	3923
2931	CGGUGGAA CUGAUGAG GCGGUUAGGC CGAA IAGGACU	1145	AGUCUUCU C UCCAAACG	3924
2932	CGGUGGAA CUGAUGAG GCGGUUAGGC CGAA ICGUAGA	1146	GUUCACAU U UCAACCGC	3925
2936	CGGUGGAA CUGAUGAG GCGGUUAGGC CGAA IAAAGGUA	1147	UCACUUCU A AGCGGGG	3926
2939	GAAGGCGU CUGAUGAG GCGGUUAGGC CGAA IUCGAGG	1148	CCUCACAC C CGGGGUU	3927
2945	AGCTTUGA CUGAUGAG GCGGUUAGGC CGAA ICGGGGU	1149	AGCGGGG U UCAAGGCU	3928
2948	UCAGAGGU CUGAUGAG GCGGUUAGGC CGAA IAAAGGCG	1150	CGCGGUUC A AGCGGGG	3929
2952	UUCGTTGU CUGAUGAG GCGGUUAGGC CGAA ICGUUGAA	1151	UUCGAGGC U GGGAGGAA	3930
2963	CGGAGGCA CUGAUGAG GCGGUUAGGC CGAA IUCGGGU	1152	GGAGGAAC A UCGGUGG	3931
2972	AAAGAGGU CUGAUGAG GCGGUUAGGC CGAA ICGACCGA	1153	UGCGGUCG A AACUCUUL	3932
2974	GGGAAAG CUGAUGAG GCGGUUAGGC CGAA IUCGGGGA	1154	UGGAAAC U CGUUGGGG	3933
2975	GAAGGAA CUGAUGAG GCGGUUAGGC CGAA IAGGUUCG	1155	GCAAAUCU U UGGGGGU	3934
2987	UAGCGGCA CUGAUGAG GCGGUUAGGC CGAA IACGGCAA	1156	UUGGGGUC U UGGGGGUG	3935
2994	UATATUUC CUGAUGAG GCGGUUAGGC CGAA ICGGCAAG	1157	UUCGGGCG U GAAGUGUC	3936
3003	ACAGGGCG CUGAUGAG GCGGUUAGGC CGAA IACGUUC	1158	GAAGUGUC A CAGCCUGU	3937
3005	AAAACGGU CUGAUGAG GCGGUUAGGC CGAA IUCGACU	1159	AGUGUCAC A GCGUGUU	3938
3007	UAGAAAAC CUGAUGAG GCGGUUAGGC CGAA ICGUUGAC	1160	GUCAACAC C UGUUUUCG	3939
3009	CGAAGAAC CUGAUGAG GCGGUUAGGC CGAA ICGGUUGA	1161	UCACAGGC U GUUCUCGG	3940
3017	CGAAACGU CUGAUGAG GCGGUUAGGC CGAA IAAAAGGG	1162	CGUUGGUU C UGGGUUGG	3941
3024	UUCGUACU CUGAUGAG GCGGUUAGGC CGAA ICAAAUCG	1163	GGAUUUCG A CGUGAAC	3942
3032	CGUGGAGG CUGAUGAG GCGGUUAGGC CGAA IUCGACU	1164	AGGTGAAC A CGGUCGAG	3943
3035	CGUCUGGA CUGAUGAG GCGGUUAGGC CGAA ICUGGUCA	1165	UGAACACG C UCCAGACG	3944
3036	CGGUCUGG CUGAUGAG GCGGUUAGGC CGAA ICGGUUCU	1166	GAACAGGC U CCAGACGG	3945
3039	CAACGCUU CUGAUGAG GCGGUUAGGC CGAA IACGGGU	1167	ACAGCCUC C AGACGGUG	3946
3043	ACACGGUC CUGAUGAG GCGGUUAGGC CGAA ICGGGCG	1168	CAACGUUC A CGGGGUG	3947
3050	GAUFGUUG CUGAUGAG GCGGUUAGGC CGAA ICAACACG	1169	GGGUGUCU A CGAACACU	3948
3051	UAGAUUGU CUGAUGAG GCGGUUAGGC CGAA IUGGACAC	1170	GGUGUCAC C AACACUCA	3949
3053	GUAGAUUG CUGAUGAG GCGGUUAGGC CGAA IGUUGCA	1171	GGUGUACU A AACACUAC	3950
3056	CGUGUAGA CUGAUGAG GCGGUUAGGC CGAA IUCGGGU	1172	GCACCAAC A UCCUACAG	3951
3059	GAUCGUUG CUGAUGAG GCGGUUAGGC CGAA IAGGUUGG	1173	CCACACAU U ACAAGAUC	3952
3060	GAGGAUCU CUGAUGAG GCGGUUAGGC CGAA ICAACGU	1174	ACACUUCU A AGAUUCU	3953
3063	CAACGAGA CUGAUGAG GCGGUUAGGC CGAA IACGUUCU	1175	ACAAGACU C UCCUGUG	3954
3064	CGAGCGAC CUGAUGAG GCGGUUAGGC CGAA IACGUUCG	1176	CAAGAUUC U CGUGUCG	3955
3071	CGUCAGCA CUGAUGAG GCGGUUAGGC CGAA IAGGACU	1177	AGAUUCU C UGCUCAC	3956
3072	CGUCAGCA CUGAUGAG GCGGUUAGGC CGAA IAGGACU	1178	GAUCGUCC U CGUCAGGG	3957
3075	ACGCTUGC CUGAUGAG GCGGUUAGGC CGAA ICAGGAGG	1179	CCUCUGGC U CGAGGGU	3958

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3078	UGUA <u>GGCC</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1180	CCUG <u>CGUGC</u> A <u>GGCGUAC</u> A	3959
3086	GUGAA <u>ACC</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1181	AGG <u>CGUAC</u> A <u>GGGUUCAC</u>	3960
3093	CACAU <u>GGCG</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1182	CAG <u>GGJUJC</u> A <u>CGCAUG'G</u>	3961
3097	AG <u>TCACACA</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1183	U <u>UJJCACG</u> C <u>TCUGUGGU</u>	3962
3105	GG <u>GGCGUJC</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1184	A <u>JUGUGUGC</u> U <u>GCAGCUC</u> C	3963
3108	A <u>JGGGAGC</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1185	U <u>GGGUGC</u> C <u>GGCUCCAU</u>	3964
3111	GG <u>GGGAGG</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1186	GG <u>GGGAGG</u> U <u>CCCAUJJ</u> C	3965
3113	A <u>JAAAAG</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1187	U <u>GCAGCUC</u> C <u>CAUJJCAJ</u>	3966
3114	GA <u>GGAAA</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1188	GC <u>AGCUC</u> C <u>AUUJCAJ</u> C	3967
3115	UG <u>AGJAAA</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1189	CA <u>GGJUJC</u> C <u>UJUCAJCA</u>	3968
3120	U <u>UJUJUJC</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1190	GG <u>CAUJJ</u> C <u>UJAGGAA</u>	3969
3127	AA <u>ATTTJC</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1191	A <u>JUJCAJ</u> C <u>GCAGGJUJ</u>	3970
3128	U <u>UCAAA</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1192	U <u>CAUJAG</u> C <u>AAGUJUGG</u> A	3971
3140	A <u>ANUGUCC</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1193	GG <u>AAAGA</u> C <u>CCACAUJJ</u>	3972
3141	A <u>AAAUUJ</u> C CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1194	GA <u>AGAAC</u> C <u>CACAUJJ</u>	3973
3142	A <u>AAAATUJ</u> C CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1195	A <u>AGAAC</u> C <u>ACAUJJUJ</u>	3974
3143	GA <u>AAAATJ</u> C CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1196	AG <u>AAAC</u> C <u>AUJUJUJC</u>	3975
3145	A <u>GGAAAAA</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1197	AA <u>GGGGAC</u> C <u>UJUJUJC</u>	3976
3150	GA <u>GGGCA</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1198	CA <u>UJUJUJC</u> C <u>GGGGCG</u> C	3977
3159	U <u>UAGGTC</u> C CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1199	A <u>UJUJUJC</u> U <u>GGGGGCA</u> A	3978
3161	GU <u>AGAGA</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1200	U <u>GGGGGJC</u> A <u>UCCUCG</u> A	3979
3164	U <u>UJUJUJC</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1201	GG <u>UJUJC</u> C <u>UGACACG</u>	3980
3166	GG <u>GGGUJ</u> C CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1202	GU <u>CAUJUC</u> C <u>GGACACGG</u>	3981
3170	GG <u>GGGGCG</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1203	U <u>UJUJUJC</u> C <u>GGGGGCU</u> C	3982
3175	GA <u>AGGGGA</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1204	GA <u>ACACGG</u> C <u>UCCUCUG</u>	3983
3176	GG <u>AGAGGG</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1205	AC <u>ACGGG</u> C <u>UCCUCUG</u>	3984
3178	U <u>ATTA</u> CAG CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1206	AC <u>GGGGG</u> C <u>UCCUCUA</u>	3985
3179	GU <u>AGAGA</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1207	GG <u>GGGGG</u> C <u>UCCUCUA</u>	3986
3180	A <u>GUAGGAG</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1208	GG <u>GGGGG</u> C <u>UCCUCAC</u>	3987
3182	GG <u>GUAGG</u> C CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1209	GG <u>GGGGG</u> C <u>GUACACG</u>	3988
3185	GA <u>UAGGA</u> U CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1210	GG <u>GGGGG</u> C <u>UCCUCAC</u>	3989
3188	CA <u>GGGAGG</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1211	U <u>GGGGG</u> C <u>UCCUCUG</u>	3990
3190	U <u>UCAAGG</u> A CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1212	U <u>GGGGG</u> C <u>AUCCUGAA</u>	3991
3191	U <u>UJUJAGG</u> A CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1213	GU <u>UACUCC</u> C <u>UCCUGAAA</u>	3992
3194	GG <u>GUJUJC</u> A CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1214	AC <u>UCCUAC</u> C <u>UGAAAGG</u> C	3993
3195	U <u>GGGUJUJC</u> A CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1215	GG <u>GGGGG</u> C <u>UAAAGG</u> C	3994
3212	GG <u>GGGUJUJC</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1216	GU <u>GGAAAG</u> C <u>AAGGAA</u> C	3995
3213	U <u>GGGGGUJC</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1217	U <u>GGAAAG</u> C <u>AAGGAA</u> C	3996
3214	GA <u>CAUJCC</u> CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1218	A <u>AGAAC</u> C <u>GGGGG</u> C	3997
3222	U <u>GGGGGG</u> C CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1219	GA <u>UJUJC</u> C <u>GGGGGGCA</u>	3998
3229	GG <u>GGGGGG</u> C CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1220	GU <u>GGGGGG</u> C <u>AAGGGGCG</u>	3999
3230	GG <u>GGGGGG</u> C CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1221	U <u>GGGGGG</u> C <u>AGGGGGCG</u>	4000
3233	GG <u>GGGGGG</u> C CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1222	AA <u>GGGGGG</u> C <u>GGGGGG</u> C	4001
3241	AG <u>AGGGG</u> C CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1223	GG <u>GGGGGG</u> C <u>GGGGGG</u> C	4002
3245	GG <u>GGGAGG</u> C CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1224	GG <u>GGGGGG</u> C <u>GGGGGG</u> C	4003
3246	AG <u>GGGAGA</u> C CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1225	GG <u>GGGGGG</u> C <u>GGGGGG</u> C	4004
3247	GA <u>GGGGCAG</u> C CUGAUGAG <u>GGCGUUAGGC</u> CGAA <u>TCAGCAGG</u>	1226	GG <u>GGGGGG</u> C <u>GGGGGG</u> C	4005

Table IV

3249	CGGAGGGC CUGAUGAG GCGGUUAGGC CGAA IAGGGCCG	1227	CGGGCCUC U GCCCUCCG	4006
3252	CCUCCGAG CUGAUGAG GCGGUUAGGC CGAA IAGAGGGG	1228	CCUCUCGC C CUCCGAGG	4007
3253	GCGUCCGA CUGAUGAG GCGGUUAGGC CGAA IGGAGAGG	1229	CCUCUCGC C UCGAGGGC	4008
3254	GGCCUCCG CUGAUGAG GCGGUUAGGC CGAA IGGAGAGG	1230	CCUCUCGC U CGAGGGCC	4009
3256	ACGGGCGC CUGAUGAG GCGGUUAGGC CGAA IAGGGAG	1231	CCUCUCGC C GAGGCAGU	4010
3267	CAUCUCCAC CUGAUGAG GCGGUUAGGC CGAA ICGUUGGA	1232	UCGAGGGC C GUGCAUGU	4011
3267	ACAGGCGAC CUGAUGAG GCGGUUAGGC CGAA ICGAGGGC	1233	GGCGGUGC A GUGGCUGU	4012
3272	GGUGGGCAC CUGAUGAG GCGGUUAGGC CGAA ICGACUCC	1234	GCAGUGGC U GUGCCACC	4013
3278	UGGCGUUGG CUGAUGAG GCGGUUAGGC CGAA ICAENGCC	1235	GGCGUGGC C ACCAAGCA	4014
3279	AUGCGUUGG CUGAUGAG GCGGUUAGGC CGAA ICGACAGG	1236	GCUGUGCC A CCAAGCAU	4015
3281	GAAGUUGG CUGAUGAG GCGGUUAGGC CGAA IGGGACAA	1237	UGUGGCGC C AAGCAUUC	4016
3282	GGAAUUGG CUGAUGAG GCGGUUAGGC CGAA IGGGACAC	1238	GUCCGACG A AGCAUUC	4017
3284	AGCTAGGAA CUGAUGAG GCGGUUAGGC CGAA ICGUUGG	1239	CAUCAGG A UGGCGUGU	4018
3291	TTTAAAGGA CUGAUGAG GCGGUUAGGC CGAA IAAUUTUU	1240	AAGCAUUC C UGGCAAA	4019
3291	GGUUGAAC CUGAUGAG GCGGUUAGGC CGAA IGAAGGCU	1241	AGCAUUC U GUGCAAG	4020
3294	UCAAGUUC CUGAUGAG GCGGUUAGGC CGAA ICAAGGAAU	1242	AUUCUUC U CAAGCUGA	4021
3296	AGUUGAGC CUGAUGAG GCGGUUAGGC CGAA IAGGAGGA	1243	UGGUGUC A AGUGACAU	4022
3300	UUCGAUUC CUGAUGAG GCGGUUAGGC CGAA IUUUGGAG	1244	GCUCAAAC U GACUGAC	4023
3304	GGGUGUGC CUGAUGAG GCGGUUAGGC CGAA IUCAGGUU	1245	AAUCUGAC U CGACACCG	4024
3304	UGACAAAG CUGAUGAG GCGGUUAGGC CGAA IUGGAGU	1246	GAUCUGAC A CGUGUGCA	4025
3311	GGUGACAC CUGAUGAG GCGGUUAGGC CGAA IUGGUGAG	1247	CGUCACAC C GUGUACAC	4026
3317	CAUCUAGG CUGAUGAG GCGGUUAGGC CGAA IACACGGU	1248	ACCGUGUC A CCUACUGG	4027
3317	GGCAAGUA CUGAUGAG GCGGUUAGGC CGAA IUGGACAC	1249	GGUGUGAC C UACGUGCC	4028
3320	UGGCAACG CUGAUGAG GCGGUUAGGC CGAA IGUUGACAC	1250	GUCCGACG U AGUGGCCA	4029
3327	CCAGGAUU CUGAUGAG GCGGUUAGGC CGAA ICAACGAG	1251	GUACUGUC C ACUCUUGG	4030
3328	CCCAAGAG CUGAUGAG GCGGUUAGGC CGAA IGCACGUA	1252	UACGUGUC A UCCUGGGG	4031
3330	ACCGCAAG CUGAUGAG GCGGUUAGGC CGAA IUGGACAC	1253	GGGGGCGC U UGGGGGU	4032
3331	UGACCCCA CUGAUGAG GCGGUUAGGC CGAA IAGUGGCA	1254	UGGCAUCG C UGGGGUCA	4033
3333	GUAGACCG CUGAUGAG GCGGUUAGGC CGAA IGAUUGGC	1255	GGCAUCAC U GGGGUAC	4034
3340	GGGGUGAG CUGAUGAG GCGGUUAGGC CGAA IACCGAC	1256	GGGGGGUC A UGGAGGAC	4035
3342	GGUGUGUG CUGAUGAG GCGGUUAGGC CGAA IUGGAC	1257	GGGGGGAC U CAGGACAG	4036
3344	GGCGGGCC CUGAUGAG GCGGUUAGGC CGAA IAGUGGAC	1258	GGGCAUCG A GGACAGCC	4037
3349	GUUGGGGC CUGAUGAG GCGGUUAGGC CGAA IUGGUGAC	1259	GGGAGGAC A GGGAGAC	4038
3351	GGGGGGUG CUGAUGAG GCGGUUAGGC CGAA IUGGUGU	1260	AGGACAGG C CAGAGGCA	4039
3353	GGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGUGCC	1261	GGACAGGC C AGAGGCTG	4040
3354	GGUGGGGC CUGAUGAG GCGGUUAGGC CGAA IGGGUGG	1262	GGATAGGC A GAGGAC	4041
3359	GAUCACAC CUGAUGAG GCGGUUAGGC CGAA IGGGUGGG	1263	GGAGACGC A GTUGAGC	4042
3363	GGCGACAC CUGAUGAG GCGGUUAGGC CGAA IGGGUGG	1264	GGGGAGG C UGGGGGGA	4043
3375	UGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IGGGUGGA	1265	GGGGGGAC U GGGGGGGA	4044
3377	GGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IAGGUCC	1266	GGGGGGAC C UGGGGGATG	4045
3378	UGGGGGGG CUGAUGAG GCGGUUAGGC CGAA IAGGUCC	1267	GAACACUC C GGGGACCA	4046
3380	GGGGGGAC CUGAUGAG GCGGUUAGGC CGAA IGGGUGG	1268	GGGGGGAC U GACUGGCC	4047
3394	UCAGGGCG CUGAUGAG GCGGUUAGGC CGAA IUGGACGU	1269	ACGGACAC U GGGGUGGA	4048
3397	GGCGGGAC CUGAUGAG GCGGUUAGGC CGAA IAGGGCAG	1270	GGGGGGAC C UGGGGGGC	4049
3398	GGGGGGCA CUGAUGAG GCGGUUAGGC CGAA IGGGACUA	1271	GGGGGGAC C UGGGGGGC	4050
3399	CGGGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGGACUC	1272	GGGGGGAC U GGAGGGCG	4051
3406	UUGGCGUC CUGAUGAG GCGGUUAGGC CGAA IGGGUCCAG	1273	GGGGGGAC C GGAGCCAA	4052

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3409	GGGUUGGC CUGAUGAG	GGCGUUAGGC CGAA ICGGCUC	1274	GAGGCGGC A GCCAACCC	4053
3412	GGCGGGUU CUGAUGAG	GGCGUUAGGC CGAA ICUGCGGC	1275	GGCGCAGC C AACCGGGC	4054
3413	UGCGGGGU CUGAUGAG	GGCGUUAGGC CGAA IGGUGGG	1276	CGCGAGGC A ACCGGGCA	4055
3416	CAGUGCGG CUGAUGAG	GGCGUUAGGC CGAA IUGGGCUG	1277	CGCGAAC C CGGCACUG	4056
3417	GCAGUGGC CUGAUGAG	GGCGUUAGGC CGAA IGGUJGCJ	1278	AGCAGAAC C GGCACUGC	4057
3421	GAGGGCAG CUGAUGAG	GGCGUUAGGC CGAA ICUGGGUJ	1279	AACCGGGC A CUGGGCUC	4058
3423	CUGAAGGC CUGAUGAG	GGCGUUAGGC CGAA IUGGGGGG	1280	GGCGGAC U GCGGUCAG	4059
3426	AGUJUJAG CUGAUGAG	GGCGUUAGGC CGAA ICAGUGCC	1281	GGGACUGC C CUCAGACU	4060
3427	AAUJUJAG CUGAUGAG	GGCGUUAGGC CGAA IGGAGUGC	1282	GCACUGGC C UCAGACUU	4061
3428	GAAGUUC CUGAUGAG	GGCGUUAGGC CGAA IGGCAJUG	1283	CAUCGGCC U CAGACUUC	4062
3430	UJJAAGUC CUGAUGAG	GGCGUUAGGC CGAA IAGGGCAG	1284	UJGGCCUC A GACUUCAA	4063
3434	GGUJUJAG CUGAUGAG	GGCGUUAGGC CGAA IUGGGAGG	1285	GGUJAGAC U UJAGACCC	4064
3437	GAUJGUGU CUGAUGAG	GGCGUUAGGC CGAA IAAJUJUG	1286	CGAGAUJC A AGACAUJC	4065
3442	UJCAAGAU CUGAUGAG	GGCGUUAGGC CGAA IJUJUJAA	1287	UJCAAGAC C AUCCUGGA	4066
3443	GUJCAAGA CUGAUGAG	GGCGUUAGGC CGAA IGGUJUGA	1288	UJCAAGAC C UCCUGGAC	4067
3446	UJCAAGUCA CUGAUGAG	GGCGUUAGGC CGAA IAUJGGUJ	1289	AGACCAUC C UGGACUJA	4068
3447	AUJACUUC CUGAUGAG	GGCGUUAGGC CGAA IGAJUJUJ	1290	GAACCAUC U GGACUJA	4069
3452	UJGGGCAJ CUGAUGAG	GGCGUUAGGC CGAA IJCCAGGA	1291	UJGGGAC U GAUGGCCA	4070
3459	GGGGGGGU CUGAUGAG	GGCGUUAGGC CGAA ICGCAUCG	1292	GGGAGGCG C ACCGGCG	4071
3460	UJGGGGGG CUGAUGAG	GGCGUUAGGC CGAA IGGCAUC	1293	UJGGGGC A CGCGCCA	4072
3462	UJGGGGCG CUGAUGAG	GGCGUUAGGC CGAA IUGGGCAU	1294	AUGGGCAC C CGCCACAA	4073
3463	UJGGGGC CUGAUGAG	GGCGUUAGGC CGAA IGGGGCGA	1295	UJGGGAC C CGCCACAG	4074
3466	UJGGGGUG CUGAUGAG	GGCGUUAGGC CGAA ICGGGGGG	1296	CGACCGGC C CACAGGCC	4075
3467	UJGGGGGU CUGAUGAG	GGCGUUAGGC CGAA IGGGGGGG	1297	CGACCGGC C ACAGGCCAG	4076
3468	UJGGGGUG CUGAUGAG	GGCGUUAGGC CGAA IGGGGGGU	1298	ACCGGCCA C CAGCCAGG	4077
3470	GGGGGGCG CUGAUGAG	GGCGUUAGGC CGAA IUGGGGGG	1299	CGGGGAC A CGCAGGCC	4078
3473	UJGGGGGU CUGAUGAG	GGCGUUAGGC CGAA ICGUGGGG	1300	CGACAGAC C AGGGCGAG	4079
3474	UJGGGGGC CUGAUGAG	GGCGUUAGGC CGAA IGGUGGG	1301	CGACAGCC A CGGGGAGA	4080
3478	UJGGGUUC CUGAUGAG	GGCGUUAGGC CGAA ICGUJGGU	1302	ACGCAAGC C GAGAGGAG	4081
3485	UJGGGUUC CUGAUGAG	GGCGUUAGGC CGAA ICGUJGGG	1303	CGGAGAGC A GACACCGA	4082
3499	GGGGGGGG CUGAUGAG	GGCGUUAGGC CGAA IUGGGUJC	1304	GAGGAGAC A CGAGCAGC	4083
3491	GGGGGGGU CUGAUGAG	GGCGUUAGGC CGAA IUGGGUJC	1305	CGAGACAC C AGCGACCC	4084
3492	AAGGGCGC CUGAUGAG	GGCGUUAGGC CGAA IGGGGUG	1306	CGAGACAC A CGACGCCU	4085
3495	ACACGGGC CUGAUGAG	GGCGUUAGGC CGAA ICGGGGGU	1307	ACACGGAC A CGCCUGGC	4086
3498	GGGGACAG CUGAUGAG	GGCGUUAGGC CGAA ICGUGGUU	1308	CGAGACAC C CGUGACAG	4087
3499	GGGGACAC CUGAUGAG	GGCGUUAGGC CGAA ICGUGGUU	1309	CGAGACAC C CGUGACAG	4088
3510	GGGGACAC CUGAUGAG	GGCGUUAGGC CGAA IGGGGGGU	1310	AGCAAGCC U CGACGCC	4089
3504	GGGGGGGG CUGAUGAG	GGCGUUAGGC CGAA IACAGGCC	1311	GGGGGGGU A CGGGGGGC	4090
3508	UAGAGGC CUGAUGAG	GGCGUUAGGC CGAA IGGGACAA	1312	UJGGACCC C GGGGCGUA	4091
3513	GGGGGGAC CUGAUGAG	GGCGUUAGGC CGAA ICGGGGGG	1313	GGGGGGCC U CGACGCC	4092
3515	GGGGGGGU CUGAUGAG	GGCGUUAGGC CGAA IAGGGGGG	1314	GGGGGGUC U AGGGGCCA	4093
3531	GGGGGGUG CUGAUGAG	GGCGUUAGGC CGAA IACGGJAGA	1315	UJGGACUC C CGGGGAGG	4094
3532	GGGGGGGU CUGAUGAG	GGCGUUAGGC CGAA IGAUGUAG	1316	CGACGGCC C AGGGAGGG	4095
3533	GGGGGGGG CUGAUGAG	GGCGUUAGGC CGAA IGGGACUA	1317	UACGGGCC A CGGGAGGA	4096
3540	GGGGGGUG CUGAUGAG	GGCGUUAGGC CGAA ICGGGGGC	1318	GGGGGGGC C CACACCCA	4097
3541	GGGGGGGU CUGAUGAG	GGCGUUAGGC CGAA IGGCGGCC	1319	GGGGGGCC C ACACCCAG	4098
3542	GGGGGGUG CUGAUGAG	GGCGUUAGGC CGAA IGGCGGCC	1320	GGCGGGCC A CACCCAGG	4099

Table IV

3544	GGCGUGGG CUGAUGAG GCGGUUAGGC CGAA IUGGUGCG	1321	CGGCCAC A CCCAGGCC	4100
3546	CGGGCCUG CUGAUGAG GCGGUUAGGC CGAA IUGGUGGC	1322	GGCCACAC C CAGGGCCCG	4101
3547	GCGGGCCU CUGAUGAG GCGGUUAGGC CGAA IGGUGGGG	1323	CCACACAC C AAGGCGCG	4102
3548	UGGGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGUGGGG	1324	CCACACAC A GGGCGCA	4103
3552	GCGGUGCG CUGAUGAG GCGGUUAGGC CGAA ICGUGGGU	1325	ACCGAGGC C CGACCGU	4104
3553	AGCGGUGC CUGAUGAG GCGGUUAGGC CGAA IGGUGGGG	1326	CCACAGGC C GCACCGU	4105
3556	CCACAGGG CUGAUGAG GCGGUUAGGC CGAA ICGUGGGU	1327	AGGCGCGC A CGCGUGGG	4106
3558	CGCGGAGC CUGAUGAG GCGGUUAGGC CGAA IUGGUGGC	1328	GC CGCAC C GCGUGGGAG	4107
3561	AGACGCGC CUGAUGAG GCGGUUAGGC CGAA IGGUGGGG	1329	CGCACCGC U GGGAGUCU	4108
3569	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA IACUCCCA	1330	UGGGAGUC U GAGGCGUG	4109
3575	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA ICGUGGGG	1331	UGGGAGGC C UAGUGAG	4110
3576	ACUCAUCU CUGAUGAG GCGGUUAGGC CGAA ICGUGGGG	1332	CGCGGCG U GAGUGAGU	4111
3592	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA ICGUGGGG	1333	UGGGAGGC C GAGGCGUG	4112
3598	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA ICGUGGGG	1334	CGCGGCG C CGCAUGUC	4113
3599	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA ICGUGGGG	1335	CGCGGCG U CGAUGUCU	4114
3602	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA ICGUGGGG	1336	AGCGCGC A UGGCGGGC	4115
3607	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA IACUCCCA	1337	UGCAUGUC U CGCGUGAG	4116
3611	AGCGCGC CUGAUGAG GCGGUUAGGC CGAA I CGUGGAC	1338	UGGUCCGC U GAGGGCG	4117
3618	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA I CGUGGAC	1339	CGCGGCG U GAGUGUCU	4118
3626	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA IACUCCCA	1340	UGAUGUC C CGCGUGAG	4119
3630	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA I CGUGGAC	1341	UGGUCCGC U GAGGCGUG	4120
3636	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA I CGUGGAC	1342	CGCGGCG C CGAGCGAG	4121
3637	ACCGCGC CUGAUGAG GCGGUUAGGC CGAA I CGUGGAC	1343	CGCGGCG U GAGGCGAG	4122
3649	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA IACACUCC	1344	CGAUGUC C CGCAAGG	4123
3650	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA ICGACACU	1345	CGAGUGUC A CGCAAGGG	4124
3653	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA ICGUGGAC	1346	UGGUCCGC C AAGGGCG	4125
3654	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA I CGUGGAC	1347	CGCGGCG A AGGGCGA	4126
3660	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA I CGUUGGG	1348	CGCGGCG U GAGUGUCU	4127
3663	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA IACACUCA	1349	CGAGUGUC C CGACACAC	4128
3669	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA IACACUCC	1350	CGAGUGUC A CGACACU	4129
3672	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA ICGUGGAC	1351	UGGUCCGC A CGACUGCC	4130
3674	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA IUGGUGGA	1352	CGACACAC A CGCGUGU	4131
3676	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA IUGGUGUG	1353	CGACACAC C CGCGUGCU	4132
3677	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA IUGGUGCU	1354	CGACACAC U CGCGUGUU	4133
3680	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA I CGUGGUC	1355	ACACACCG C CGCGUGAC	4134
3694	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA IATGGGAG	1356	CGCGGCG U CGACACAC	4135
3697	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA IAAAGACG	1357	CGCGGCG A CGACACAC	4136
3699	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA I CGAAAGAT	1358	CGCGGCG U CGACACAC	4137
3702	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA IAAAGUGA	1359	CGCGGCG C CGACACAC	4138
3693	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA IGAAGUGA	1360	CGACACAC C CGACAGGGU	4139
3694	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA ICGGAAGU	1361	CGACACAC C ACAGGGUG	4140
3695	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA ICGGAAGU	1362	ACCGCGC A CGGGCGGG	4141
3697	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA IUGGGCGAA	1363	CGCGGCG A CGCGUGCG	4142
3701	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA ICGUGGUG	1364	CGACACAC U CGCGUGCG	4143
3707	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA ICGCCCG	1365	CGCGGCG U CGCGUGCA	4144
3712	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA ICGGAGCG	1366	CGCGGCG U CGACACAC	4145
3714	CGCGGCG CUGAUGAG GCGGUUAGGC CGAA IACCCGAG	1367	CGCGGCG C ACACACCG	4146

Table IV

3715	CCCTGGGG CUGAUGAG GCGGUUAGGC CGAA IGGAGCGA	1368	GGGGCUCC A CCCAGGG	4147
3717	GGCCUUGG CUGAUGAG GCGGUUAGGC CGAA IGGAGCG	1369	GGGUCCAC C CGAGGGCC	4148
3718	UGGGCUG CUGAUGAG GCGGUUAGGC CGAA IGGAGCG	1370	GGGUCCAC C CAGGGCCA	4149
3719	CUGGCCU CUGAUGAG GCGGUUAGGC CGAA IGGAGGG	1371	GGGUCCAC C AGGGCCAG	4150
3720	GCUGGGCC CUGAUGAG GCGGUUAGGC CGAA IGGAGGG	1372	GGGUCCAC C GGGCCAGC	4151
3725	GAAGACU CUGAUGAG GCGGUUAGGC CGAA IGGAGGG	1373	GGGUCCAC C AGGUUUCU	4152
3726	GGAAAGG CUGAUGAG GCGGUUAGGC CGAA IGGAGGG	1374	GGGUCCAC C GCUUUCU	4153
3729	UGAGGAAA CUGAUGAG GCGGUUAGGC CGAA IGGAGGG	1375	GGGUCCAC C UUUCUCA	4154
3734	CCUGGUGA CUGAUGAG GCGGUUAGGC CGAA IAAAGCU	1376	AGGUUUC C UCACCAAG	4155
3735	UCCUUGAG CUGAUGAG GCGGUUAGGC CGAA IGAAGAG	1377	GGGUCCAC C UACCAAGA	4156
3737	CCUGGUGG CUGAUGAG GCGGUUAGGC CGAA IGGAAAA	1378	GGGUCCAC C UGAGGAG	4157
3739	GGGGGUCC CUGAUGAG GCGGUUAGGC CGAA IUGAGAA	1379	GGGUCCAC C AGGAGGCG	4158
3740	GGGGGUCC CUGAUGAG GCGGUUAGGC CGAA IGGAGGA	1380	GGGUCCAC C GGAGGGCG	4159
3746	GGAAAGGG CUGAUGAG GCGGUUAGGC CGAA IGGAGGG	1381	GGGUCCAC C CGGUUUCG	4160
3747	GGAAAGGC CUGAUGAG GCGGUUAGGC CGAA IGGAGGG	1382	GGGUCCAC C GGGUUCCA	4161
3751	GGAAAGGA CUGAUGAG GCGGUUAGGC CGAA IGGGGCG	1383	GGGUCCAC C UGGACUCC	4162
3754	GGGGGUCC CUGAUGAG GCGGUUAGGC CGAA IAAAGGG	1384	GGGUCCAC C AGGUCCCA	4163
3755	GUUAGGAG CUGAUGAG GCGGUUAGGC CGAA IGAAGCG	1385	GGGUCCAC C GUUCCAT	4164
3757	AUUGGGGG CUGAUGAG GCGGUUAGGC CGAA IUGGAGG	1386	GGGUCCAC C UGGACAU	4165
3759	GGAAAGGG CUGAUGAG GCGGUUAGGC CGAA IAGGAGA	1387	GGGUCCAC C CGACAUAG	4166
3760	GGGUCCAC CUGAUGAG GCGGUUAGGC CGAA IGGAGGG	1388	GGGUCCAC C CACAUAGG	4167
3761	GGGUCCAC CUGAUGAG GCGGUUAGGC CGAA IGGAGGG	1389	GGGUCCAC C ACGAUAGG	4168
3762	GGGUCCAC CUGAUGAG GCGGUUAGGC CGAA IGGAGGG	1390	GGGUCCAC C CAUAGGAA	4169
3764	UAGGUUUA CUGAUGAG GCGGUUAGGC CGAA IUGGGAG	1391	GGGUCCAC C UAGGAAUA	4170
3776	GGGGGGAU CUGAUGAG GCGGUUAGGC CGAA IACGUUUC	1392	GGGUCCAC C AUCCCCAG	4171
3777	GGGGGGGA CUGAUGAG GCGGUUAGGC CGAA IGGGUUUA	1393	GGGUCCAC C AAUAGGUC	4172
3780	GAAGGUUC CUGAUGAG GCGGUUAGGC CGAA IAGGACU	1394	GGGUCCAC C AGGUUUC	4173
3781	GGAAUUCG CUGAUGAG GCGGUUAGGC CGAA IGAUGGAC	1395	GGGUCCAC C CGAUUUCG	4174
3782	GGGAAUCU CUGAUGAG GCGGUUAGGC CGAA IGGAUUCA	1396	GGGUCCAC C AGAUUUCG	4175
3783	GGGGAAUC CUGAUGAG GCGGUUAGGC CGAA IGGGUUCC	1397	GGGUCCAC C GAAUUCGC	4176
3791	GGAAUAAU CUGAUGAG GCGGUUAGGC CGAA ICGAAUCU	1398	GGGUCCAC C AUUGUUCA	4177
3792	GUAAACAA CUGAUGAG GCGGUUAGGC CGAA IGGAAACU	1399	GGGUCCAC C UGGGUUCA	4178
3799	GGGAGGG CUGAUGAG GCGGUUAGGC CGAA IAAACAAUG	1400	GGGUCCAC C CGGUUUCG	4179
3801	GGGGAGGG CUGAUGAG GCGGUUAGGC CGAA IUGAACAA	1401	GGGUCCAC C CGGUUUCG	4180
3802	AGGGCGAG CUGAUGAG GCGGUUAGGC CGAA IGGAAACA	1402	GGGUCCAC C CGGUUUCG	4181
3803	CAGGGCGA CUGAUGAG GCGGUUAGGC CGAA IGGGUUAC	1403	GGGUCCAC C CGGUUUCG	4182
3804	GGAGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGUUAA	1404	GGGUCCAC C CGGUUUCG	4183
3808	GGAGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGUUCC	1405	GGGUCCAC C CGGUUUCG	4184
3809	GGAGGGCA CUGAUGAG GCGGUUAGGC CGAA IGGGUUCC	1406	GGGUCCAC C CGGUUUCG	4185
3810	AGGGGGCG CUGAUGAG GCGGUUAGGC CGAA IGGGGAGG	1407	GGGUCCAC C CGGUUUCG	4186
3813	GAAGGGAG CUGAUGAG GCGGUUAGGC CGAA IGGGGAGG	1408	GGGUCCAC C CGGUUUCG	4187
3814	GGAAAGGA CUGAUGAG GCGGUUAGGC CGAA IGGGGAGG	1409	GGGUCCAC C CGGUUUCG	4188
3815	GGCAAAAG CUGAUGAG GCGGUUAGGC CGAA IGGGGAGG	1410	GGGUCCAC C CGGUUUCG	4189
3817	AAAGGGAAA CUGAUGAG GCGGUUAGGC CGAA IAGGGCAG	1411	GGGUCCAC C CGGUUUCG	4190
3818	GAAGGGAA CUGAUGAG GCGGUUAGGC CGAA IGGGGGCA	1412	GGGUCCAC C CGGUUUCG	4191
3823	GGGGGGAA CUGAUGAG GCGGUUAGGC CGAA ICAAAAGG	1413	GGGUCCAC C CGGUUUCG	4192
3824	GGGGGGGA CUGAUGAG GCGGUUAGGC CGAA ICGAAAGG	1414	GGGUCCAC C CGGUUUCG	4193

Table IV

3827	GUGGGGGU CUGAUGAG CCCGUUAGGC CGAA IAAGGCNA	1415	UUGCCUUC C ACECCCAC	4194
3828	GUUGGGGG CUGAUGAG CCCGUUAGGC CGAA IGAAGGCA	1416	UGCCUUC A CCCCCAC	4195
3830	AUGGUGGG CUGAUGAG CCCGUUAGGC CGAA IUGGAAGG	1417	CCUUCAC C CCCACCAU	4196
3831	GAUGGUGG CUGAUGAG CCCGUUAGGC CGAA IGUGGAAG	1418	CCUUCAC C CCACCAUC	4197
3832	GGAUJGGG CUGAUGAG CCCGUUAGGC CGAA IGGUJGAA	1419	UUCACCC C CACAUCC	4198
3833	UGGAUGGU CUGAUGAG CCCGUUAGGC CGAA IGGGUUGA	1420	UCCACCC C ACCAUCCA	4199
3834	UGGAUGGG CUGAUGAG CCCGUUAGGC CGAA IGGGGUGG	1421	CCACCCCC A CCAUCCAG	4200
3836	AUCUGGAU CUGAUGAG CCCGUUAGGC CGAA IUGGGGGU	1422	ACCCCCAC C AUCCAGGU	4201
3837	CACUGGA CUGAUGAG CCCGUUAGGC CGAA IGGGGGG	1423	CCCCACAC A UCCAGGUG	4202
3840	CCACACCU CUGAUGAG CCCGUUAGGC CGAA IAUGGGGG	1424	CCACCAUC C AGGUGGAG	4203
3841	UCUCACAU CUGAUGAG CCCGUUAGGC CGAA IGAUGGGG	1425	CCACAUCC A UGGUAGGA	4204
3851	UCUCUAG CUGAUGAG CCCGUUAGGC CGAA IUCUCAC	1426	GUUGAGAC C CUGAAGA	4205
3852	CCUCUCA CUGAUGAG CCCGUUAGGC CGAA IUCUCUCA	1427	UGGAGAC C UGAGAAGG	4206
3853	UCUCUUCU CUGAUGAG CCCGUUAGGC CGAA IEGUCUUC	1428	CGA GACCU U GAGAAGGA	4207
3863	GCUCUCAG CUGAUGAG CCCGUUAGGC CGAA IUCUCUCU	1429	AGAAGGAC C UGGGGAGC	4208
3864	AGCUCUCG CUGAUGAG CCCGUUAGGC CGAA IUCUCUC	1430	GAAGGAC C UGGGAGCU	4209
3865	GAUCUCUC CUGAUGAG CCCGUUAGGC CGAA IEGUCUCU	1431	AGGAGAC U GGGGACUC	4210
3872	AUUCUCAG CUGAUGAG CCCGUUAGGC CGAA IUCUCAC	1432	UUGGGAGC U CUGGGAAU	4211
3874	AAAUUCUC CUGAUGAG CCCGUUAGGC CGAA IAGCUCC	1433	GGGAGCU U GGGAAUJJ	4212
3891	AUCACUUC CUGAUGAG CCCGUUAGGC CGAA IUCACUUC	1434	GGAGUGAC C AAAGGU	4213
3892	CACACUUC CUGAUGAG CCCGUUAGGC CGAA IGCACUC	1435	GAUGUAC C A AGGGUGUG	4214
3902	GUGUACAC CUGAUGAG CCCGUUAGGC CGAA ICAACCU	1436	AGGUGUC C CUGUACAC	4215
3903	UCUUCUCA CUGAUGAG CCCGUUAGGC CGAA ICGUACAC	1437	GGUUGUC C UGUACACA	4216
3904	CGUGUAC CUGAUGAG CCCGUUAGGC CGAA IGGCACAC	1438	GUUGUCU U GUACACAG	4217
3909	CGUGGUUC CUGAUGAG CCCGUUAGGC CGAA IUAUCAGG	1439	CCUGUAC A CAGGCGAG	4218
3911	UCUUCUCC CUGAUGAG CCCGUUAGGC CGAA IUGUACAG	1440	CGUACAC A CGCGAGGA	4219
3901	AGUUCUAG CUGAUGAG CCCGUUAGGC CGAA IUCUCUC	1441	GGGAGAC C CUGCACU	4220
3912	CAUGUUC CUGAUGAG CCCGUUAGGC CGAA IGUUCUC	1442	GGAGGAC C UGCAUCUG	4221
3923	CCAGGUUC CUGAUGAG CCCGUUAGGC CGAA IGGUCUC	1443	GGGACCC U CGACCUUG	4222
3926	CAUCUAGG CUGAUGAG CCCGUUAGGC CGAA ICAUGGGC	1444	GAUCUUC A CGUGGAUG	4223
3928	CCUACUCA CUGAUGAG CCCGUUAGGC CGAA IUGCAAGG	1445	CCUCUAC C UGGAUGGG	4224
3929	CCUACUCC CUGAUGAG CCCGUUAGGC CGAA IGGUAGG	1446	CCUCUAC U CGAUGGGG	4225
3941	ACCCACAG CUGAUGAG CCCGUUAGGC CGAA IACCCCCA	1447	GGGGGUUC C CGUGGGGU	4226
3942	GAACACAG CUGAUGAG CCCGUUAGGC CGAA IGAACCCC	1448	GGGGGUUC C CGUGGGUC	4227
3943	UGACCCAC CUGAUGAG CCCGUUAGGC CGAA IGGACCCC	1449	GGGGGUCC U CGUGGUCA	4228
3951	CCUCAAUU CUGAUGAG CCCGUUAGGC CGAA IACCCCCA	1450	UGUGGGUC A AAUUGGGG	4229
3963	ACUCCCA CUGAUGAG CCCGUUAGGC CGAA ICAACCCC	1451	GGAGGUGG U CGUGGGAG	4230
3984	AUAUAUUC CUGAUGAG CCCGUUAGGC CGAA IUAUUCUA	1452	UAAAUAAC U GAAUUAU	4231
4002	UUCAAAAC CUGAUGAG CCCGUUAGGC CGAA IAAAAACU	1453	AGUUUUC A GUUUGAA	4232

Stem Length = 8 . Core Sequence = CUGAUGAG CCCGUUAGGC CGAA, 1 = Inosine nucleotide

Seq1 = TERT (Homo sapiens telomerase reverse transcriptase (TERT) mRNA, 4015 bp); Nakamura *et al.*, Science 277 (5328), 955-959 (1997)

Table V: Human telomerase reverse transcriptase (TERT) G-Cleaver Ribozyme and Target Sequence

nt.	Substrate Sequence	Seq ID Nos	Ribozyme Sequence	
			Position	Nos
16	GUUCGUUCU G CUGCG	1454		
19	GCGUCCGGU G CGCGC	1455	GCGCG UGAGGCAUCAUAGGGG AGAAGGGC	4233
21	GUCCUCGU G CACG	1456	AGCGG UGAGGCAUCAUAGGGG AGAAGGGC	4234
53	GGGACCCG G CGAUG	1457	CAUCG UGAGGCAUCAUAGGGG AGAAGGGC	4235
55	GGACCCGG G AGGGC	1458	GGGGG UGAGGCAUCAUAGGGG AGAAGGGC	4236
58	GGGGGGGG G CACG	1459	GGGGG UGAGGCAUCAUAGGGG AGAAGGGC	4237
61	GGGGGGGG G CGACG	1460	GGGGG UGAGGCAUCAUAGGGG AGAAGGGC	4238
63	GGAGGGGG G CGGGC	1461	GGGGG UGAGGCAUCAUAGGGG AGAAGGGC	4239
65	GAUGGGGG G CGGGC	1462	GGGGG UGAGGCAUCAUAGGGG AGAAGGGC	4240
72	GGGGGGGG G CGACG	1463	GGGGG UGAGGCAUCAUAGGGG AGAAGGGC	4241
75	GGGGGGGG G CGACG	1464	GGGGG UGAGGCAUCAUAGGGG AGAAGGGC	4242
78	GGGGGGGG G AGGGC	1465	GGGGU UGAGGCAUCAUAGGGG AGAAGGGC	4243
85	GGGGGGGG G CGGGC	1466	GGGGU UGAGGCAUCAUAGGGG AGAAGGGC	4244
87	GGGGGGGG G CGGGC	1467	GGGGU UGAGGCAUCAUAGGGG AGAAGGGC	4245
94	GGGGGGGG G CGGGC	1468	GGGGU UGAGGCAUCAUAGGGG AGAAGGGC	4246
97	GGGGGGGG G CGGGC	1469	GGGGU UGAGGCAUCAUAGGGG AGAAGGGC	4247
99	GGGGGGGG G CGGGC	1470	GGGGU UGAGGCAUCAUAGGGG AGAAGGGC	4248
111	ACGGACACG G CGGGC	1471	GGGGU UGAGGCAUCAUAGGGG AGAAGGGC	4249
113	CAUCAUCG G AGGGC	1472	GGGGU UGAGGCAUCAUAGGGG AGAAGGGC	4250
118	ACGGACACG G CGGGC	1473	GGGGU UGAGGCAUCAUAGGGG AGAAGGGC	4251
121	GGAGGGGGU G CGGGC	1474	GGGGGG UGAGGCAUCAUAGGGG AGAAGGGC	4252
124	ACGGACACG G CGGGC	1475	GGGGU UGAGGCAUCAUAGGGG AGAAGGGC	4253
139	GGGGGGGG G CGGGC	1476	GGGGGG UGAGGCAUCAUAGGGG AGAAGGGC	4254
144	UTGGGGGGGG G CGGGC	1477	GGGGGG UGAGGCAUCAUAGGGG AGAAGGGC	4255
172	GGGGGGGG G CGGGC	1478	GGGGGG UGAGGCAUCAUAGGGG AGAAGGGC	4256
177	GGGGGGGG G CGGGC	1479	GGGGGG UGAGGCAUCAUAGGGG AGAAGGGC	4257
198	GGGGGGGG G CGGGC	1480	GGGGGG UGAGGCAUCAUAGGGG AGAAGGGC	4258
200	GGGGGGGG G CGGGC	1481	GGGGGG UGAGGCAUCAUAGGGG AGAAGGGC	4259

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202	UUCUUCGCG G CUCGU	1452	UUCUUCGCAUCUACUUCG GUCGCGAAG	4261
216	GUGGCGAU G CGCGG	1473	GUAGG UGUUCGCAUCUACUUCG AGUAGGAC	4262
223	AUGUUCGU G UGUU	1484	AUCA UGUUCGCAUCUACUUCG ACCAGGACU	4263
225	UGCUUGGU G CGGGC	1485	UGCUU UGUUCGCAUCUACUUCG ACCAGGAA	4264
229	UGGUUCGU G CGGU	1486	UGGUU UGUUCGCAUCUACUUCG ACCGACACA	4265
239	GUCUCCAC G CGGCG	1487	UUCG UGUUCGCAUCUACUUCG GUCGCGCC	4266
247	ACGAGGCG G CGCCG	1488	GUAGG UGUUCGCAUCUACUUCG GUCGCGCC	4267
254	GGCGCGCG G CGCGC	1489	GGCGG UGUUCGCAUCUACUUCG GUCGCGCC	4268
257	GGGGGGCG G CGCGC	1490	GGGGG UGUUCGCAUCUACUUCG GUCGCGCC	4269
270	GGCGCGCG G CGGGG	1491	GGGGG UGUUCGCAUCUACUUCG GUCGCGCC	4270
277	UGGGCGGU G CGGCG	1492	UGGA UGUUCGCAUCUACUUCG ACCGGGAA	4271
282	CAUCGUCU G CGGGG	1493	UCAGG UGUUCGCAUCUACUUCG ACCACCGUG	4272
286	UGGUUCGUU G AGGAA	1494	UGGUU UGUUCGCAUCUACUUCG AGGAGGAGA	4273
303	GUAGGAGCG G AGGCG	1495	GUAGG UGUUCGCAUCUACUUCG AGGAGGAGA	4274
307	UGGGCGAGU G CGGAA	1496	UGGUU UGUUCGCAUCUACUUCG AGUCCGGCA	4275
310	GGCGCGCG G CGGGG	1497	GGGGG UGUUCGCAUCUACUUCG AGGAGGAGG	4276
319	UUAACAUU G UUUA	1498	UUAAC UGUUCGCAUCUACUUCG AGGAGGAGA	4277
321	CACGCGGU G CGGGC	1499	GUAGG UGUUCGCAUCUACUUCG AGAGGCGU	4278
323	GAACGUUUC G AAGAA	1500	GUAGG UGUUCGCAUCUACUUCG AGAGGCGU	4279
327	CUGGCGCG G CGGGG	1501	GUAGG UGUUCGCAUCUACUUCG AGGGCGAG	4280
322	GUACGGGGU G CGGAG	1502	GUAGG UGUUCGCAUCUACUUCG AGGGCGUG	4281
334	AUCGAGGCG G AAGAA	1503	GUAGG UGUUCGCAUCUACUUCG AGGGCGUG	4282
343	CGAGACAUU G CGGGG	1504	GUAGG UGUUCGCAUCUACUUCG AGGGCGUG	4283
356	CGUUCGGCG G CGGGG	1505	GUAGG UGUUCGCAUCUACUUCG AGGGCGAG	4284
361	UGGGCGUCAC G CGGGG	1506	GUAGG UGUUCGCAUCUACUUCG CGGAGGCGA	4285
364	GUUCGCGGU G CGGGG	1507	GUAGG UGUUCGCAUCUACUUCG AGGGCGAG	4286
378	GAUCGGGGCG G CGGGG	1508	GUAGG UGUUCGCAUCUACUUCG CGGAGGCGU	4287
392	GGGGGGCG G AGGGC	1509	GGGUU UGUUCGCAUCUACUUCG CGGAGGCGU	4288
412	GUACGGGU G CGGGG	1510	GUAGG UGUUCGCAUCUACUUCG AGGGCGUG	4289
414	ACGAGGAGU G CGGGG	1511	AGGUU UGUUCGCAUCUACUUCG AGGGCGGU	4290
424	CCAGGAGGU G CGGGG	1512	GUAGG UGUUCGCAUCUACUUCG AGGGCGUG	4291

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43b	GUAGUAGU G AGUA	1513	UCCGUUUAUUAUUAUAGUAGGAGGUUGG	4292
44b	CACGUAGG G AGUA	1514	UCCGUUUAUUAUUAUAGUAGGAGGUUGG	4293
44b	GUAGUAGU G GUAGU	1515	UAGGUUUAUUAUUAUAGUAGGAGGUUGG	4294
44b	CGUAGUAGU G GUAGU	1516	UAGGUUUAUUAUUAUAGUAGGAGGUUGG	4295
472	CUGGUAGU G GUAGU	1517	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4296
475	GGGGGUGU G GUAGU	1518	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4297
478	GUAGUAGU G GUAGU	1519	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4298
480	GUAGUAGU G GUAGU	1520	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4299
483	GUAGUAGU G GUAGU	1521	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4300
484	GUAGUAGU G AGUA	1522	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4301
494	GGGGGUGU G AGUA	1523	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4302
499	GUAGUAGU G GUAGU	1524	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4303
511	UGGGGUACGU G GUAGU	1525	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4304
519	GUAGUAGU G GUAGU	1526	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4305
522	GUAGUAGU G GUAGU	1527	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4306
524	GUAGUAGU G GUAGU	1528	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4307
526	GUAGUAGU G GUAGU	1529	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4308
533	GUAGUAGU G GUAGU	1530	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4309
535	GUAGUAGU G GUAGU	1531	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4310
552	GUAGUAGU G GUAGU	1532	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4311
554	GUAGUAGU G GUAGU	1533	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4312
565	GUAGUAGU G GUAGU	1534	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4313
567	GUAGUAGU G GUAGU	1535	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4314
574	GUAGUAGU G GUAGU	1536	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4315
577	GUAGUAGU G GUAGU	1537	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4316
580	GUAGUAGU G GUAGU	1538	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4317
592	GUAGUAGU G GUAGU	1539	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4318
596	GUAGUAGU G GUAGU	1540	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4319
616	GUAGUAGU G GUAGU	1541	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4320
623	GUAGUAGU G GUAGU	1542	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4321
636	GUAGUAGU G GUAGU	1543	GUAGU G GUAGUUAUUAUAGUAGGAGGUUGG	4322

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1017	GACAGGCUU G UGGCG	1576	GGGAA UGAUAGAUCAUAGCGG AGGGCGUC	4354
1027	GUCCGGGGU G UGGG	1576	GGGAA UGAUAGAUCAUAGCGG AGGGCGAC	4355
1031	CGUAGGUAG G CGGAG	1577	GGGGU UGAUAGAUCAUAGCGG GUACCGGG	4356
1034	GGGUAGGU G AGGGC	1578	GGGUU UGAUAGAUCAUAGCGG GGGUAGCC	4357
1064	CGGGUAGGU G AGGGG	1579	GGGUU UGAUAGAUCAUAGCGG GGGUAGAG	4358
1078	AGGUAGGU G CGGGC	1580	GGGGU UGAUAGAUCAUAGCGG AGGGCGUC	4359
1105	UCAGGUUUG G AGGGG	1581	GGGUU UGAUAGAUCAUAGCGG AGAGGUGA	4360
1117	GGGGUAGGU G AGGGG	1582	GGGUU UGAUAGAUCAUAGCGG AGGGGGCC	4361
1124	GGGGUAGGU G CGGGG	1583	GGGUU UGAUAGAUCAUAGCGG GGGUAGGG	4362
1171	GGGGUAGGU G CGGGG	1584	GGGGU UGAUAGAUCAUAGCGG AGGGGGCC	4363
1185	GGGGUAGGU G CGGGG	1585	GGGUU UGAUAGAUCAUAGCGG AGGGGGCC	4364
1192	GGGGUAGGU G CGGGG	1586	GGGGU UGAUAGAUCAUAGCGG AACGGGGGG	4365
1197	AGGGUAGGU G CGGGG	1587	GGGUU UGAUAGAUCAUAGCGG GGCGCAACCU	4366
1201	UGGGGGGGU G CGGGG	1588	GGGGU UGAUAGAUCAUAGCGG AGGGGGGCA	4367
1209	GGGGUAGGU G CGGGG	1589	GGGUU UGAUAGAUCAUAGCGG GGGGGGAG	4368
1222	ACGGGGAAAU G CGGGG	1590	GGGGU UGAUAGAUCAUAGCGG AGGGGGAGU	4369
1231	UGGGGGGGU G CGGGG	1591	GGGUU UGAUAGAUCAUAGCGG AGGGGGGCA	4370
1243	UGGGGGGGU G CGGGG	1592	GGGUU UGAUAGAUCAUAGCGG AGGGGGAGAA	4371
1256	GGGGUAGGU G CGGGG	1593	GGGGU UGAUAGAUCAUAGCGG AGGGGGGG	4372
1258	GGGGUAGGU G CGGGG	1594	GGGUU UGAUAGAUCAUAGCGG GGGGGGCCC	4373
1263	GGGGUAGGU G CGGGG	1595	GGGGU UGAUAGAUCAUAGCGG AGGGGGGG	4374
1276	GGGGUAGGU G CGGGG	1596	GGGUU UGAUAGAUCAUAGCGG AGGGGGGG	4375
1288	UGGGGGGGU G CGGGG	1597	GGGGU UGAUAGAUCAUAGCGG GGGGGGAGGA	4376
1293	AGGGGGGGU G CGGGG	1598	GGGUU UGAUAGAUCAUAGCGG AGGGGGGCTU	4377
1297	GGGGUAGGU G CGGGG	1599	GGGGU UGAUAGAUCAUAGCGG GGGGGGGCG	4378
1300	ACGGGGGGU G CGGGG	1600	GGGUU UGAUAGAUCAUAGCGG AGGGGGAGU	4379
1302	UGGGGGGGU G CGGGG	1601	GGGUU UGAUAGAUCAUAGCGG AGGGGGAGA	4380
1307	GGGGUAGGU G CGGGG	1602	GGGGU UGAUAGAUCAUAGCGG AGGGGGAGC	4381
1328	AGGGGGGGU G CGGGG	1603	GGGGU UGAUAGAUCAUAGCGG AGGGGGGCU	4382
1332	GGGGGGGGU G CGGGG	1604	GGGGU UGAUAGAUCAUAGCGG AGGGGGGG	4383
1334	CGGGGGGGU G CGGGG	1605	GGGGU UGAUAGAUCAUAGCGG AGGGGGACCG	4384

1358	CCAGGGCCU G UGGG	1606	CCGCA UGAAUUAUCAUAGUGGCG AGAGCCUUGG	4385
1370	GGGGGGGG G AGGG	1607	CCGUU UGAAUUAUCAUAGUGGCG GGGGGGGGG	4386
1395	GGGGGGGG G CGGG	1608	CCAGG UGAAUUAUCAUAGUGGCG GACGGGGGUC	4387
1402	GUCCCCGU G CAGU	1609	ACAGG UGAAUUAUCAUAGUGGCG ACCAGGAC	4388
1403	GGGGGGGG G CGGG	1610	CCGAG UGAAUUAUCAUAGUGGCG AGCGGGGCA	4389
1413	CAGGAGGU G CGGG	1611	GGGGG UGAAUUAUCAUAGUGGCG GAGGAGCG	4390
1438	GGGGGGGG G UAGG	1612	CCGUA UGAAUUAUCAUAGUGGCG ACCUGGAGG	4391
1450	ACGGGGGG G CGGG	1613	GGGGG UGAAUUAUCAUAGUGGCG ACCAAGGGU	4392
1452	GGGGGGGG G CGGG	1614	GGAGG UGAAUUAUCAUAGUGGCG AGGGGAC	4393
1462	GGGGGGGG G CGGG	1615	GGGAG UGAAUUAUCAUAGUGGCG AGGAAGCC	4394
1464	GGGGGGGG G CGGG	1616	GGGGG UGAAUUAUCAUAGUGGCG GAGGAGGC	4395
1474	GGGGGGGG G CGGG	1617	GGGGG UGAAUUAUCAUAGUGGCG ACCAGGTCAC	4396
1505	ACGGGGGG G AACG	1618	GGGGG UGAAUUAUCAUAGUGGCG GGGGGGCG	4397
1509	CGACACAC G CGGG	1619	AGGGG UGAAUUAUCAUAGUGGCG GGGGGGGG	4398
1512	AACGAAACCC G CGGG	1620	GGAGG UGAAUUAUCAUAGUGGCG GGGGGGUU	4399
1556	GGGGAAAU G CGAG	1621	GGGGG UGAAUUAUCAUAGUGGCG AGGGGGCC	4400
1567	GGAGGGGG G CGGG	1622	GGGGG UGAAUUAUCAUAGUGGCG GAGGGGGG	4401
1570	AGGGGGGG G CGGG	1623	GGGGG UGAAUUAUCAUAGUGGCG AGGGGGGG	4402
1579	UGGAGGAGG G AGGG	1624	UAGGG UGAAUUAUCAUAGUGGCG AGGGGGAA	4403
1591	CGGGGGGG G AGGG	1625	ACGGU UGAAUUAUCAUAGUGGCG ATTGGGAGG	4404
1597	ACAUACAU G CGGG	1626	GGGGG UGAAUUAUCAUAGUGGCG ATGGGGAUU	4405
1605	GGGGGGGG G CGGG	1627	AGGGG UGAAUUAUCAUAGUGGCG ATGGGGAC	4406
1607	GGGGGGGG G CGGG	1628	CCAGG UGAAUUAUCAUAGUGGCG GAGGGGGG	4407
1615	GGGGGGGG G CGGG	1629	GGGGG UGAAUUAUCAUAGUGGCG AGGGGGCG	4408
1617	GGGGGGGG G CGGG	1630	GGGGG UGAAUUAUCAUAGUGGCG GAGGGGGG	4409
1638	GGGGGGGG G UGGG	1631	GGAGA UGAAUUAUCAUAGUGGCG AGGGGGCC	4410
1640	GGGGGGGG G CGGG	1632	GGGGG UGAAUUAUCAUAGUGGCG ATGGGGAC	4411
1642	GGGGGGGG G CGGG	1633	GGGGG UGAAUUAUCAUAGUGGCG GGGGGGAA	4412
1663	AGGACGGG G CGGG	1634	UAGG G UGAAUUAUCAUAGUGGCG AGGGGGGU	4413
1667	GGGGGGGG G AGGG	1635	GGGGG UGAAUUAUCAUAGUGGCG ATGGGGCG	4414
1690	GGGGGGGG G CGGG	1636	GGGGG UGAAUUAUCAUAGUGGCG AGGAACUUGG	4415

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1699	UUCGUUCGUU G AUCAA	1657	GUCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4416
1702	ACUGGCGAU G AGUGU	1658	AUCGU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4417
1706	GUUCUUCGU G UGUAU	1639	GUCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4418
1708	UGAUGAGGU G UACGU	1649	AUGUA UCAUCUCAUACUUCGCA AUCCAUUCGCA	4419
1718	GUACGUUCGU G AGUCG	1641	UACGU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4420
1722	UCGUCCACGU G CUCAS	1642	GUCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4421
1742	UUCUUCUUAU G UGUAU	1643	GUCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4422
1793	GUUCGUACGU G UGUAC	1644	GUCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4423
1807	GGAGCAAGU G CAAAG	1645	GUUCG UCAUCUCAUACUUCGCA AUCCAUUCGCA	4424
1834	GUCAAGACAU G AGUCG	1646	GUUCU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4425
1843	GUUCAGAGGU G UGUAU	1647	AUCGU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4426
1842	GGGUUCGU G CAAAG	1648	GUUCG UCAUCUCAUACUUCGCA AUCCAUUCGCA	4427
1858	UGGGGGAGGU G UGUAU	1649	GUCCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4428
1892	ACGUACGU G CGUCG	1650	GUCCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4429
1903	GUCCUCGU G CGUCG	1651	GUCCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4430
1906	CGGGGGGU G AGUCG	1652	GUCCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4431
1929	UGUAGGUACGU G CUCAA	1653	GUCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4432
1937	GUUCGUACGU G AGUCG	1654	GUCCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4433
1945	GUUCGUACGU G CGUCG	1655	GUCCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4434
1951	GGGUUCGU G AGUCG	1656	GUCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4435
1955	GUCCUCGU G UGUAU	1657	GUCCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4436
1957	GUCCUCGU G AGUCG	1658	GUCCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4437
1992	AUCGUACGU G CGUCG	1659	GUCCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4438
2009	AMGUUCGU G AGUCG	1660	AUCGU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4439
2023	GUUCGUACGU G AGUCG	1661	GUCCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4440
2029	GUUCGUACGU G AGUCG	1662	GUCCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4441
2038	UGAAGGUACGU G UGUAU	1663	GUCCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4442
2047	UGGUUCGU G CUCAA	1664	GUCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4443
2057	GUUCGUACGU G AGUCG	1665	GUCCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4444
2065	ACGAGGAGGU G CGUCG	1666	GUCCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4445
2070	GUUCGUACGU G CGUCG	1667	GUCCAU UCAUCUCAUACUUCGCA AUCCAUUCGCA	4446

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2087	GUUCGGGGG G CCGGG	1656	AGAGG UGAGGUAUCAUAGGCGG GCGGAGGG	4447
2092	GGGCGGGG G GGGGG	1669	CAGCA UGAGGUAUCAUAGGCGG AGAGGAGGC	4448
2095	GGGCGGGG G GGGGG	1670	CGAGA UGAGGUAUCAUAGGCGG AGAGGAGGC	4449
2103	GGGGGGGAC G AUAGC	1671	GGAGU UGAGGUAUCAUAGGCGG GCGGAGGG	4450
2127	AGGGGGGG G GAGG	1672	AGGG UGAGGUAUCAUAGGCGG GCGGAGGG	4451
2137	GGACGGGG G CGGGG	1673	CGAA UGAGGUAUCAUAGGCGG AGAGGAGGC	4452
2149	GGGGGGGG G CGGGGG	1674	ACAGG UGAGGUAUCAUAGGCGG AGAGGAGGC	4453
2144	GGGGGGGG G GGGGG	1675	CGAGA UGAGGUAUCAUAGGCGG AGAGGAGGC	4454
2145	GGGGGGGG G CGGGG	1676	GGGG UGAGGUAUCAUAGGCGG AGAGGAGGC	4455
2161	GGGGGGGG G CGGGG	1677	CGGGG UGAGGUAUCAUAGGCGG AGAGGAGGC	4456
2164	AGGGGGGG G CGGG	1678	GGAGG UGAGGUAUCAUAGGCGG AGAGGAGGC	4457
2168	GGGGGGGG G AGGGG	1679	CGAGG UGAGGUAUCAUAGGCGG AGGGGGGG	4458
2173	GGGGGGGG G HAGGG	1680	AGAGA UGAGGUAUCAUAGGCGG AGAGGAGGC	4459
2180	GGGGGGGG G UGGGG	1681	CGAGA UGAGGUAUCAUAGGCGG AGAGGAGGC	4460
2192	GGGGGGGG G UGGGG	1682	CGAGA UGAGGUAUCAUAGGCGG AGGGGGGG	4461
2194	AGGGGGGG G AGGGG	1683	CGGGG UGAGGUAUCAUAGGCGG AGAGGAGGC	4462
2201	GGGGGGGG G CGGGC	1684	GGGGG UGAGGUAUCAUAGGCGG CGGGGGAGCA	4463
2207	GGGGGGGG G HAGGG	1685	CGGGG UGAGGUAUCAUAGGCGG GCGGGGGCG	4464
2242	GGGGGGGG G CGGGC	1686	GGGGG UGAGGUAUCAUAGGCGG GAGGGCGGG	4465
2274	GGGGGGGG G CGGGG	1687	GGGGG UGAGGUAUCAUAGGCGG AGGGGGGG	4466
2278	GGGGGGGG G CGGGG	1688	GGGGG UGAGGUAUCAUAGGCGG AGGGGGGG	4467
2288	GGGGGGGG G CGGGG	1689	CGGGG UGAGGUAUCAUAGGCGG AGGGGGGG	4468
2305	GGGGGGGG G CGGGG	1690	AGGGG UGAGGUAUCAUAGGCGG AGGGGGGG	4469
2324	GGGGGGGG G CGGGG	1691	CGGGG UGAGGUAUCAUAGGCGG GCGGGGGCG	4470
2352	GGGGGGGG G CGGGG	1692	CGGGG UGAGGUAUCAUAGGCGG AGGGGGGG	4471
2374	GGGGGGGG G CGGGG	1693	CGGGG UGAGGUAUCAUAGGCGG AGGGGGGG	4472
2376	GGGGGGGG G CGGGG	1694	AGGGG UGAGGUAUCAUAGGCGG GCGGGGGCG	4473
2395	GGGGGGGG G CGGGG	1695	CGGGG UGAGGUAUCAUAGGCGG AGGGGGGG	4474
2410	AGGGGGGG G CGGGG	1696	CGGGG UGAGGUAUCAUAGGCGG GCGGGGGCG	4475
2413	GGGGGGGG G CGGGG	1697	GGGGG UGAGGUAUCAUAGGCGG AGGGGGGG	4476
2420	GGGGGGGG G CGGGG	1698	CGGGG UGAGGUAUCAUAGGCGG AUCCCGAGC	4477

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2432	CGUCGUACG G AGAGA	1642	UUCU UGAUGCAUCUAGUUCG GAAAGCAAC	4478
2442	GUCCUCUCG G AATTA	1705	UAAAU UGAUGCAUCUAGUUCG GAAAGCAAC	4479
2452	GUCCUCUAC G AGGCG	1704	GGCCU UGAUGCAUCUAGUUCG GAAAGCAAC	4480
2474	UGGUUUCUUC G AGGCG	1707	UAGGU UGAUGCAUCUAGUUCG GAAAGCAAC	4481
2487	GUUUCUAC G CUUCA	1703	UGAG UGAUGCAUCUAGUUCG GAAAGCAAC	4482
2492	UACAGUCA G GAA	1704	UUGUA UGAUGCAUCUAGUUCG GAAAGCAAC	4483
2496	GGGTTTACU G CCAGC	1705	GGGTT UGAUGCAUCUAGUUCG GAAAGCAAC	4484
2504	GUUCGUUC G CGGGC	1706	UACGG UGAUGCAUCUAGUUCG GAAAGCAAC	4485
2509	ACGUACGGG G CGGGC	1707	AGGGG UGAUGCAUCUAGUUCG GAAAGCAAC	4486
2511	CAAGGGGGG G CAAUA	1708	UUAAG UGAUGCAUCUAGUUCG GAAAGCAAC	4487
2538	UACGGGUAC G CGGGC	1709	UCCGG UGAUGCAUCUAGUUCG GAAAGCAAC	4488
2551	AAGGGGUCC G CGGGC	1710	UCCGG UGAUGCAUCUAGUUCG GAAAGCAAC	4489
2572	UCCGUUUCG G CGGGC	1711	AGGAG UGAUGCAUCUAGUUCG GAAAGCAAC	4490
2575	UCCGUUCCG G CGGGC	1712	UAGAG UGAUGCAUCUAGUUCG GAAAGCAAC	4491
2589	ACGGGGGG G CGGGC	1713	GGGUG UGAUGCAUCUAGUUCG GAAAGCAAC	4492
2587	UCCGUUCCG G CGGGC	1714	UCCCA UGAUGCAUCUAGUUCG GAAAGCAAC	4493
2589	UCCGUUCCG G CGGGC	1715	GGGGG UGAUGCAUCUAGUUCG GAAAGCAAC	4494
2597	GGGGGGGG G AGAGG	1716	CAAGG UGAUGCAUCUAGUUCG GAAAGCAAC	4495
2614	AGACACGGG G CGGGC	1717	GGAAA UGAUGCAUCUAGUUCG GAAAGCAAC	4496
2618	CAAGGGGGG G CGGGC	1718	GGGGG UGAUGCAUCUAGUUCG GAAAGCAAC	4497
2641	GGGGGGGG G CGGGC	1719	AGGAG UGAUGCAUCUAGUUCG GAAAGCAAC	4498
2647	GGGGGGGG G CGGGC	1720	AGGCG UGAUGCAUCUAGUUCG GAAAGCAAC	4499
2660	UUGGGGGGG G AGUC	1721	GGGGU UGAUGCAUCUAGUUCG GAAAGCAAC	4500
2678	AGGAUUCGG G UGGGG	1722	AGGAA UGAUGCAUCUAGUUCG GAAAGCAAC	4501
2674	GGGGGGGG G AGAGG	1723	GGGGG UGAUGCAUCUAGUUCG GAAAGCAAC	4502
2692	GUUCACCGCG G CGGGC	1724	UUCGG UGAUGCAUCUAGUUCG GAAAGCAAC	4503
2695	UCAAGGAGG G AGAGG	1725	GUUUC UGAUGCAUCUAGUUCG GAAAGCAAC	4504
2721	ACGUUGGGG G AGAGG	1726	CAAGG UGAUGCAUCUAGUUCG GAAAGCAAC	4505
2726	GUUCGAGG G UGGGG	1727	AGGAA UGAUGCAUCUAGUUCG GAAAGCAAC	4506
2722	AGGGGGGGG G AGGAG	1728	AGGGG UGAUGCAUCUAGUUCG GAAAGCAAC	4507
2742	GAUCAUUGGG G CGGGC	1729	UAGGG UGAUGCAUCUAGUUCG GAAAGCAAC	4508

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2749	GCUGUGGUGU G AACUU	1750	ANUUU UGAUGGCAUUCUAUAGGUG ACCAGCAGC	4509
2755	UGUGCAACUU G CGGAA	1751	UUCG G UGAAUCAUAGGUG ACCAGUACCA	4510
2770	AGACAGUGGU G AACUJ	1752	AGGUU UGAUGGCAUUCUAUAGGUG ACCAGUACCU	4511
2780	GAATGTTGCU G UAA	1753	UCCU UGAUGGCAUUCUAUAGGUG ACCAGAGUC	4512
2789	UGUAGAAAGAC G AGGAC	1754	GGGUU UGAUGGCAUUCUAUAGGUG ACCAGUACCA	4513
2813	CAACGTTGCU G UUUAG	1755	GUAAA UGAUGGCAUUCUAUAGGUG AAAAAGGUG	4514
2824	UUGGUCAAGAU G CGGCG	1756	GGGGG UGAUGGCAUUCUAUAGGUG AUUAGAACAA	4515
2847	UUCGGUUGAU G CGGCG	1757	GGCGG UGAUGGCAUUCUAUAGGUG ACCAGGGAA	4516
2854	GGGGGGCG G CGGGG	1758	AGGAG UGAUGGCAUUCUAUAGGUG AGGGGCCACC	4517
2857	UGUGGUGGU G CGGGG	1759	GGGAG UGAUGGCAUUCUAUAGGUG AGGGCCGCG	4518
2881	GUUUGGGAU G CGGGG	1760	GGGGG UGAUGGCAUUCUAUAGGUG ACCGGGGGG	4519
2888	GGGGGGCAAU G AGGAC	1761	GUAGU UGAUGGCAUUCUAUAGGUG GCGTTTAC	4520
2903	GGUGAUUAG G CGGGG	1762	GGGGG UGAUGGCAUUCUAUAGGUG AUUAGAACAA	4521
2940	AGUUGGAAAU G CGGGG	1763	AGGGG UGAUGGCAUUCUAUAGGUG GGCGGAGGG	4522
2955	GGGGGGGGAU G CGGGG	1764	GGGGG UGAUGGCAUUCUAUAGGUG AGGGTTTAC	4523
2970	AGAAGGGGG G CGAAC	1765	GGGGG UGAUGGCAUUCUAUAGGUG GCGGGAGGG	4524
2989	UGUUGGGAU G CGGGG	1766	AGGGG UGAUGGCAUUCUAUAGGUG AGGGGGGAA	4525
2995	UGGGGGGGAU G AGGAG	1767	GUUUG UGAUGGCAUUCUAUAGGUG AGGGTAAGAA	4526
3004	GGGGGGGGAU G CGAAC	1768	GGGGG UGAUGGCAUUCUAUAGGUG AGGGGGGG	4527
3010	GUUUGGGAU G CGGGG	1769	AGAAA UGAUGGCAUUCUAUAGGUG AGGGGGGAG	4528
3022	UUCGGGAUU G CGGG	1770	ACGGG UGAUGGCAUUCUAUAGGUG AAAACAGAA	4529
3028	AUUGGAGU G AGGAG	1771	GUUGU UGAUGGCAUUCUAUAGGUG ACCGGAAAU	4530
3046	UGGGGGGGAU G CGAAC	1772	GGGGG UGAUGGCAUUCUAUAGGUG ACCGGUUGGA	4531
3049	CAACGGGGAU G CGAAC	1773	GGGGG UGAUGGCAUUCUAUAGGUG ACACGGUCUG	4532
3073	AUGGGGGAU G CGAAC	1774	UCAAU UGAUGGCAUUCUAUAGGUG AGGGGAUCU	4533
3076	UGGGGGGGAU G CGAAC	1775	GGGGG UGAUGGCAUUCUAUAGGUG AGGGAGGAGA	4534
3095	CAGGGGGGAU G CGAAC	1776	ACAGG UGAUGGCAUUCUAUAGGUG GUGAAACCUG	4535
3099	UUCGGGGAU G CGAAC	1777	GGACA UGAUGGCAUUCUAUAGGUG AUGGGGAA	4536
3101	UGACGGGGAU G CGAAC	1778	CAAGCA UGAUGGCAUUCUAUAGGUG ACAGGGUGA	4537
3103	ACGGGGGGAU G CGAAC	1779	UGGGG UGAUGGCAUUCUAUAGGUG ACAGGGGGU	4538
3106	CAUGGGGGAU G CGAAC	1780	AGGGG UGAUGGCAUUCUAUAGGUG AGCACACAAUG	4539

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3154	CAGUUCUUCU G CGUAC	1761	AGAGG UUAUUCAUACAUACUUCG AGUAAAGAU	4540
3156	UUUUCUCU G CGUCA	1762	UGAGG UGAUUCAUACAUACUUCG CGAGGAAAA	4541
3167	CGUCUUCU G AUACG	1763	UAGAU UGAUUCAUACAUACUUCG AGAGAUAGG	4542
3183	CGUCUUCU G CGUAC	1764	AGUAG UGAUUCAUACAUACUUCG AGAGAUAGG	4543
3195	AGUUCUUCU G AUACG	1765	CGUUC UGAUUCAUACAUACUUCG AGAGAUAGG	4544
3209	AGUUCUAC G CGACG	1766	GUAGG UGAUUCAUACAUACUUCG GUUCUGGCU	4545
3217	AGUUCUAC G CGACG	1767	AGUAG UGAUUCAUACAUACUUCG AGUAGAUAGG	4546
3240	CAGGAAUCG G CGACG	1768	GUAGG UGAUUCAUACAUACUUCG GAGACCGUG	4547
3236	CGUCUUCU G CGUAC	1769	GUAGG UGAUUCAUACAUACUUCG GGUUCGGCG	4546
3239	CAAGGCGCG G CGACG	1770	GUAGG UGAUUCAUACAUACUUCG GGUUCGGCG	4549
3250	CGGCGCGU G CGACG	1771	GUAGG UGAUUCAUACAUACUUCG AGAGGCGCG	4550
3257	UUCUUCUUC G AUACG	1772	GUAGG UGAUUCAUACAUACUUCG GAAAGAGA	4551
3265	CGUCUUCU G CGACG	1773	UAGAU UGAUUCAUACAUACUUCG AGAGAUAGG	4552
3274	UGCAUCGCG G CGACG	1774	UGAGG UGAUUCAUACAUACUUCG AGGACUGCA	4553
3276	CAUCUUCUUC G CGACG	1775	GUAGG UGAUUCAUACAUACUUCG AGGACACUG	4554
3292	AAGCAUUCU G CGUCA	1776	UGAGG UGAUUCAUACAUACUUCG AGGAACGUU	4555
3301	UGUCUUCU G AUACG	1777	GUAGG UGAUUCAUACAUACUUCG AGUAGAGGA	4556
3306	AAUCUUCUUC G AUACG	1778	GUAGG UGAUUCAUACAUACUUCG GAAAGAGGU	4557
3314	UGUCUUCU G AUACG	1779	GUAGG UGAUUCAUACAUACUUCG AGAGAUAGG	4558
3325	UGUCUUCU G CGACG	1780	AGUAG UGAUUCAUACAUACUUCG AGUAGAUAGG	4559
3359	CGUCUUCU G CGACG	1781	AGUAG UGAUUCAUACAUACUUCG GUUCGGCG	4560
3364	AUCUUCUUC G AUACG	1782	GUAGG UGAUUCAUACAUACUUCG AGUAGAUAGG	4561
3382	UGUCUUCU G AUACG	1783	AGUAG UGAUUCAUACAUACUUCG GUUCGGGA	4562
3388	CGUCUUCU G CGACG	1784	GUAGG UGAUUCAUACAUACUUCG GUUCGGCG	4563
3391	GUAGGCGCG G AUACG	1785	GUAGG UGAUUCAUACAUACUUCG AGUAGAUAGG	4564
3395	GAUCUUCU G CGUUC	1786	UAGAU UGAUUCAUACAUACUUCG AGUAGAUAGG	4565
3407	CGUCUUCU G CGACG	1787	GUAGG UGAUUCAUACAUACUUCG GAGTCAGG	4566
3424	ACCGGGACU G CGACG	1788	GAUCG UGAUUCAUACAUACUUCG AGUAGAUAGG	4567
3453	AUCUCGGACU G AUACG	1789	GUAGG UGAUUCAUACAUACUUCG AGUAGAUAGG	4568
3464	AUGGCGACU G CGACG	1790	GUAGG UGAUUCAUACAUACUUCG GGUAGGCAU	4569
3474	CAUCUUCU G AUACG	1791	GUAGG UGAUUCAUACAUACUUCG GGUAGGCG	4570

3501	CGAGGCU G UUACG	1792	CGAGGCU UGAGGCAUUAUUCGCG AGGAGCGCG	4571
3506	GGCGUCCAU G UGUGG	1793	GGCGUCCAU UGAGGCAUUAUUCGCG GUGACAGGGC	4572
3554	AUCUCCCG G UAUCC	1794	AUCUCCCG UGAGGCAUUAUUCGCG GGGCGGGU	4573
3559	GGGCGGAG G CGGGG	1795	GGGCGGAG UGAGGCAUUAUUCGCG GGCGGGCG	4574
3570	CGGGAGGU G AGGGG	1796	CGGGAGGU UGAGGCAUUAUUCGCG AGACTCCAG	4575
3577	UCUGAAGGU G AGGU	1797	UCUGAAGGU UGAGGCAUUAUUCGCG AGGCGUAGA	4576
3581	AGGUCUAGU G AGGU	1798	AGGUCUAGU UGAGGCAUUAUUCGCG AGUAGGCU	4577
3585	CGUGGCGAU G UUUCG	1799	CGUGGCGAU UGAGGCAUUAUUCGCG ACUCACAG	4578
3593	GUUGGUGAU G AUUCG	1800	GUUGGUGAU UGAGGCAUUAUUCGCG GCGAAAC	4579
3606	GGGAGGCU G CGGGG	1801	GGGAGGCU UGAGGCAUUAUUCGCG AGGCGGGC	4580
3634	AGGCGUAGU G UGGCG	1802	AGGCGUAGU UGAGGCAUUAUUCGCG AGGAGCGU	4581
3617	AUCUUCGGU G AUUCG	1803	AUCUUCGGU UGAGGCAUUAUUCGCG AGCGGAC	4582
3619	GUUCGGACAU G AGGU	1804	GUUCGGACAU UGAGGCAUUAUUCGCG AGUUCAGC	4583
3624	AGGUCUAGU G UGGCG	1805	AGGUCUAGU UGAGGCAUUAUUCGCG AGTACGGU	4584
3631	GUUCGGACAU G AGGU	1806	GUUCGGACAU UGAGGCAUUAUUCGCG AGCGGAC	4585
3638	GGGAGGCU G AGGGG	1807	GGGAGGCU UGAGGCAUUAUUCGCG AGGCGAAC	4586
3642	AGGUCUAGU G AGGU	1808	AGGUCUAGU UGAGGCAUUAUUCGCG GCGAAAC	4587
3646	GUUCGGACAU G UGGCG	1809	GUUCGGACAU UGAGGCAUUAUUCGCG ACUCGGCAG	4588
3652	GUUCGGACAU G AGGU	1810	GUUCGGACAU UGAGGCAUUAUUCGCG AGGCGAAC	4589
3655	AGGUCUAGU G UGGCG	1811	AGGUCUAGU UGAGGCAUUAUUCGCG AGTACGGU	4590
3678	CACCCACAU G CGGGG	1812	CACCCACAU UGAGGCAUUAUUCGCG AGGCGGGG	4591
3705	AUCUUCGGU G CGGGG	1813	AUCUUCGGU UGAGGCAUUAUUCGCG GCGAGCGG	4592
3789	GGGAGGCU G CGAU	1814	GGGAGGCU UGAGGCAUUAUUCGCG GAAUUCGGG	4593
3795	AUCUUCGGU G UUUCG	1815	AUCUUCGGU UGAGGCAUUAUUCGCG AAUGGGGAAU	4594
3806	UUCGGACAU G CGGGG	1816	UUCGGACAU UGAGGCAUUAUUCGCG GAGGAGGAA	4595
3811	GGGAGGCU G CGGGG	1817	GGGAGGCU UGAGGCAUUAUUCGCG AGGCGGGGG	4596
3821	GGGAGGCU G CGGGG	1818	GGGAGGCU UGAGGCAUUAUUCGCG AGGCGGGGG	4597
3854	GGGAGGCU G AGGGG	1819	GGGAGGCU UGAGGCAUUAUUCGCG AGGCGGGGCA	4598
3888	AGGUCUAGU G AGGU	1820	AGGUCUAGU UGAGGCAUUAUUCGCG AGTACGGAU	4599
3892	GUUCGGACAU G UGGCG	1821	GUUCGGACAU UGAGGCAUUAUUCGCG AGTGGGGUC	4600
3900	GUUCGGACAU G CGGGG	1822	GUUCGGACAU UGAGGCAUUAUUCGCG AGGCGGGG	4601

Table V

Seq1 = TERT (*Homo sapiens* telomerase reverse transcriptase (TERT) mRNA, 4015 bp). Nakamura *et al.*, *Science* 277 (5328), 955-959 (1997).

Input Sequence = TEBT Cut Site = YG/M or ||G||

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Table VI: Human telomerase reverse transcriptase (TERT) DNAzyme and Target Sequence

nt. Position	DNAzyme Sequence	Seq. ID Nos	Substrate	Seq. ID Nos
9	TAGGAGGAGGTTAGGTTAACGAA AGGGTT	1832	GGAGGAGG G GGGGCGCG	4611
11	AGCAGGAA GGGTTAGGTTAACGAA G GGGTT	1833	AAGGAGGAG G GGGGCGCG	4612
16	TGGCAGG GGGTTAGGTTAACGAA AGGGTT	1834	GGGGCGCG G GGGGCGCG	4613
19	AGGTT GGGTTAGGTTAACGAA AGGGTT	1835	GGGGCGCG G GGGGCGCG	4614
21	GGGGTT GGGTTAGGTTAACGAA AGGGTT	1836	GGGGCGCG G GGGGCGCG	4615
23	TGGGAGG GGGTTAGGTTAACGAA AGGGTT	1837	GGGGCGCG G GGGGCGCG	4616
25	GGGGAGG GGGTTAGGTTAACGAA AGGGTT	1838	GGGGCGCG G GGGGCGCG	4617
32	GGGGAGG GGGTTAGGTTAACGAA AGGGTT	1839	GGGGCGCG G GGGGCGCG	4618
38	GGGGAGG GGGTTAGGTTAACGAA AGGGTT	1840	GGGGCGCG G GGGGCGCG	4619
44	GGGGAGG GGGTTAGGTTAACGAA AGGGTT	1841	GGGGCGCG G GGGGCGCG	4620
47	GGGGAGG GGGTTAGGTTAACGAA AGGGTT	1842	GGGGCGCG G GGGGCGCG	4621
53	GGGGAGG GGGTTAGGTTAACGAA AGGGTT	1843	GGGGCGCG G GGGGCGCG	4622
56	GGGGAGG GGGTTAGGTTAACGAA AGGGTT	1844	GGGGCGCG G GGGGCGCG	4623
59	GGGGCGCG GGGTTAGGTTAACGAA AGGGTT	1845	GGGGCGCG G GGGGCGCG	4624
61	GGGGCGCG GGGTTAGGTTAACGAA AGGGTT	1846	GGGGCGCG G GGGGCGCG	4625
63	GGGGCGCG GGGTTAGGTTAACGAA AGGGTT	1847	GGGGCGCG G GGGGCGCG	4626
65	GGGGCGCG GGGTTAGGTTAACGAA AGGGTT	1848	GGGGCGCG G GGGGCGCG	4627
72	TCGGGGAG GGGTTAGGTTAACGAA AGGGTT	1849	GGGGCGCG G GGGGCGCG	4628
75	GGGGAGG GGGTTAGGTTAACGAA AGGGTT	1850	GGGGCGCG G GGGGCGCG	4629
80	GGGGAGG GGGTTAGGTTAACGAA AGGGTT	1851	GGGGCGCG G GGGGCGCG	4630
83	GGGGAGG GGGTTAGGTTAACGAA AGGGTT	1852	GGGGCGCG G GGGGCGCG	4631
85	GGGGAGG GGGTTAGGTTAACGAA AGGGTT	1853	GGGGCGCG G GGGGCGCG	4632
87	GGGGAGG GGGTTAGGTTAACGAA AGGGTT	1854	GGGGCGCG G GGGGCGCG	4633
94	TGGGGAG GGGTTAGGTTAACGAA AGGGTT	1855	GGGGCGCG G GGGGCGCG	4634
97	GGGGAGG GGGTTAGGTTAACGAA AGGGTT	1856	GGGGCGCG G GGGGCGCG	4635
99	GTTGGTGG GGGTTAGGTTAACGAA AGGGTT	1857	GGGGCGCG G GGGGCGCG	4636
102	GGGGAGG GGGTTAGGTTAACGAA AGGGTT	1858	GGGGCGCG G GGGGCGCG	4637

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105	GUUGUAGT GGTATGTTAACAA GGTATGTTAACAA	1859	GGCGAGCC A AGTACCGC	4638
109	CGGCGGAC GGTATGTTAACAA GGTATGTTAACAA	1860	CAAGT ACG A ATTTGAGA	4639
111	CGACGCGC GGTATGTTAACAA GGTATGTTAACAA	1861	GGCAUACG G GCGAGGUG	4640
116	CGCAAGAC GGTATGTTAACAA GGTATGTTAACAA	1862	ACCGGAGA G GCGTGGCG	4641
118	GGGGAGCC GGTATGTTAACAA GGTATGTTAACAA	1863	GGCGAGCC G GCGTGGCG	4642
121	CGAAAGAC GGTATGTTAACAA GGTATGTTAACAA	1864	GGCGAGCC G GCGTGGCG	4643
124	TGGGGG GGTATGTTAACAA GGTATGTTAACAA	1865	GGCGAGCC G GCGGCGCA	4644
126	AACUUCGC GGTATGTTAACAA GGTATGTTAACAA	1866	GGCGCGCG G GCGAGGUG	4645
131	AUGAGGT GGTATGTTAACAA GGTATGTTAACAA	1867	GGCGCGCG A AGCGUGCU	4646
133	GGGGAC GGTATGTTAACAA GGTATGTTAACAA	1868	GGCGCGCG G GCGTGGCG	4647
137	CGGCGAC GGTATGTTAACAA GGTATGTTAACAA	1869	GGCGCGCG G GCGTGGCG	4648
139	GGGGCGC GGTATGTTAACAA GGTATGTTAACAA	1870	GGCGCGCG G GCGTGGCG	4649
142	GGGGCGC GGTATGTTAACAA GGTATGTTAACAA	1871	GGCGCGCG G GCGTGGCG	4650
144	CGGGCGC GGTATGTTAACAA GGTATGTTAACAA	1872	GGCGCGCG G GCGTGGCG	4651
151	CGGGCGC GGTATGTTAACAA GGTATGTTAACAA	1873	GGCGCGCG G GCGTGGCG	4652
159	GGGGCGC GGTATGTTAACAA GGTATGTTAACAA	1874	GGCGCGCG G GCGTGGCG	4653
162	CGGGCGC GGTATGTTAACAA GGTATGTTAACAA	1875	GGCGCGCG G GCGTGGCG	4654
166	GGACGAC GGTATGTTAACAA GGTATGTTAACAA	1876	GGCGCGCG G GCGTGGCG	4655
170	CGGGCGC GGTATGTTAACAA GGTATGTTAACAA	1877	GGCGCGCG G GCGTGGCG	4656
172	GGGGCGC GGTATGTTAACAA GGTATGTTAACAA	1878	GGCGCGCG G GCGTGGCG	4657
175	GGGGCGC GGTATGTTAACAA GGTATGTTAACAA	1879	GGCGCGCG G GCGTGGCG	4658
177	GGGGCGC GGTATGTTAACAA GGTATGTTAACAA	1880	GGCGCGCG G GCGTGGCG	4659
183	GGGGCGC GGTATGTTAACAA GGTATGTTAACAA	1881	GGCGCGCG A AGCGCGCG	4660
184	GGGGCGC GGTATGTTAACAA GGTATGTTAACAA	1882	GGCGCGCG G GCGCGCG	4661
191	GGGGCGC GGTATGTTAACAA GGTATGTTAACAA	1883	AGCGCGCG G GCGTGGCG	4662
198	GGGGCGC GGTATGTTAACAA GGTATGTTAACAA	1884	GGCGCGCG G GCGTGGCG	4663
200	GGGGCGC GGTATGTTAACAA GGTATGTTAACAA	1885	GGCGCGCG G GCGTGGCG	4664
202	GGGGCGC GGTATGTTAACAA GGTATGTTAACAA	1886	GGCGCGCG G GCGTGGCG	4665
206	TGAGGAC GGTATGTTAACAA GGTATGTTAACAA	1887	GGCGCGCG G GCGCGCG	4666
209	CACTGGCG GGTATGTTAACAA GGTATGTTAACAA	1888	GGCGCGCG G GCGAGGUG	4667
214	CCACGGCG GGTATGTTAACAA GGTATGTTAACAA	1889	GGCGCGCG G GCGCGCG	4668

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216	CGCTGCGG GCGTACGATGAA AGCTTCAAG	1890	GGCGTAAU G GCGTACGATGAA	4669
221	AGGCGCG GCGTACGATGAA AGCTTCAAG	1891	AGGCGCG G GCGTACGATGAA	4670
223	CGCTGCG GCGTACGATGAA AGCTTCAAG	1892	CGCTGCG G GCGTACGATGAA	4671
225	GGCTGG GCGTACGATGAA AGCTTCAAG	1893	GGCTGG G GCGTACGATGAA	4672
227	CGGGCG GCGTACGATGAA AGCTTCAAG	1894	GGGGCG G GCGTACGATGAA	4673
229	CGAGAG GCGTACGATGAA AGCTTCAAG	1895	GGAGAG G GCGTACGATGAA	4674
237	CGTGGG GCGTACGATGAA AGCTTCAAG	1896	GGTGGG G GCGTACGATGAA	4675
239	GGCGGG GCGTACGATGAA AGCTTCAAG	1897	GGCGGG G GCGTACGATGAA	4676
241	GGGGGG GCGTACGATGAA AGCTTCAAG	1898	GGGGGG G GCGTACGATGAA	4677
244	GGGGGG GCGTACGATGAA AGCTTCAAG	1899	GGGGGG G GCGTACGATGAA	4678
247	GGGGGG GCGTACGATGAA AGCTTCAAG	1900	GGGGGG G GCGTACGATGAA	4679
254	GGGGGG GCGTACGATGAA AGCTTCAAG	1901	GGGGGG G GCGTACGATGAA	4680
257	GAAGGG GCGTACGATGAA AGCTTCAAG	1902	GGGGGG G GCGTACGATGAA	4681
270	CAACGG GCGTACGATGAA AGCTTCAAG	1903	GGGGGG G GCGTACGATGAA	4682
275	CGGGAA GCGTACGATGAA AGCTTCAAG	1904	GGGGGG G GCGTACGATGAA	4683
277	GGGGAG GCGTACGATGAA AGCTTCAAG	1905	GGGGGG G GCGTACGATGAA	4684
282	CTTGAGG GCGTACGATGAA AGCTTCAAG	1906	GGGGGG G GCGTACGATGAA	4685
292	CCACAA GCGTACGATGAA AGCTTCAAG	1907	GGGGGG G GCGTACGATGAA	4686
296	CGGGAA GCGTACGATGAA AGCTTCAAG	1908	GGGGGG G GCGTACGATGAA	4687
299	ACGGAG GCGTACGATGAA AGCTTCAAG	1909	GGGGGG G GCGTACGATGAA	4688
305	TGGAGAA GCGTACGATGAA AGCTTCAAG	1910	GGGGGG G GCGTACGATGAA	4689
307	TGTTGG GCGTACGATGAA AGCTTCAAG	1911	GGGGGG G GCGTACGATGAA	4690
219	GGGGGG GCGTACGATGAA AGCTTCAAG	1912	GGGGGG G GCGTACGATGAA	4691
316	CGACAA GCGTACGATGAA AGCTTCAAG	1913	GGGGGG G GCGTACGATGAA	4692
319	GTGGAA GCGTACGATGAA AGCTTCAAG	1914	GGGGGG G GCGTACGATGAA	4693
321	GGCTGG GCGTACGATGAA AGCTTCAAG	1915	GGGGGG G GCGTACGATGAA	4694
325	GGGGGG GCGTACGATGAA AGCTTCAAG	1916	GGGGGG G GCGTACGATGAA	4695
327	GGGGGG GCGTACGATGAA AGCTTCAAG	1917	GGGGGG G GCGTACGATGAA	4696
330	CTTCGGG GCGTACGATGAA AGCTTCAAG	1918	GGGGGG G GCGTACGATGAA	4697
332	TTCTTCGG GCGTACGATGAA AGCTTCAAG	1919	GGGGGG G GCGTACGATGAA	4698
339	CAAGGG GCGTACGATGAA AGCTTCAAG	1920	GGGGGG G GCGTACGATGAA	4699

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341	GUCAUAC GGTAGTAAAGA GTTTCG	1921	GTAAAGAC G GUGGCG	4700
343	AGGUAGU GGTAGTAAAGA AGCTCTT	1922	AGAACTG G AGUGGCG	4701
347	GGAAAU GGTAGTAAAGA CAAATG	1923	AUUGGAG G GCGUGG	4702
354	GGGAGG GGTAGTAAAGA GAAAGG	1924	GGTTTTCG G GCGUGG	4703
359	AGCAAG GGTAGTAAAGA GAAAGG	1925	TTGGTTCG G GCGUGG	4704
361	GGAGAU GGTAGTAAAGA GCAAGG	1926	GGAGUUC G GCGUGG	4705
364	GGTAAU GGTAGTAAAGA AAGGGA	1927	TTGGGTT A AGGGAG	4706
362	GGGGGT GGTAGTAAAGA CGGAGG	1928	GGTGGCG A AGGGCC	4707
374	GGGGGG GGTAGTAAAGA CGGAGG	1929	GGGGGGG G GCGUGG	4708
378	GGGGGG GGTAGTAAAGA CGGAGG	1930	GGGGGG G GCGUGG	4709
384	GGGGGG GGTAGTAAAGA CGGAGG	1931	GGGGGG G GCGGGCC	4710
395	GGGGGG GGTAGTAAAGA CGGAGG	1932	GGGGGG G GCGGAC	4711
401	GGGGGG GGTAGTAAAGA GAAAGG	1933	AGGGTT A ACCACAG	4712
404	AGGTTT GGTAGTAAAGA GGTGGG	1934	GGTTTAC A ACCAGGU	4713
408	GGGGGG GGTAGTAAAGA GTTGGT	1935	GGTACCA A GCGGGC	4714
410	GGGGGG GGTAGTAAAGA GTTGGT	1936	GGTACCA A GCGGGG	4715
412	AGCTTGT GGTAGTAAAGA AATGTTT	1937	ACCTGGT G GGCGAC	4716
414	GTAGTG GGTAGTAAAGA GGAGGG	1938	CAAGGGC G GCAGUC	4717
417	CACTAT GGTAGTAAAGA TAAATG	1939	GGGGGTA G TACACUG	4718
420	GGGGGG GGTAGTAAAGA AATTTG	1940	GGGAACT A ACTGGC	4719
424	TGGGGC GGTAGTAAAGA AATTTG	1941	AGTTACCG G GCGAAC	4720
429	CTTTCT GGTAGTAAAGA TGGGGT	1942	CTTACCA A ACACGG	4721
431	GTAACT GGTAGTAAAGA GTTGGG	1943	GGGGGAA A ACGGGAC	4722
434	TGGTAA GGTAGTAAAGA GTTGGG	1944	GGAAAGG G GGAGGA	4723
437	GGGGGG GGTAGTAAAGA GGGGGT	1945	ATGGGGG A ACCAGC	4724
441	CAGGGT GGTAGTAAAGA GGGGGT	1946	GGGGGG A AGGGGG	4725
443	GGGGGG GGTAGTAAAGA GGGGGT	1947	GGGGGGT G GCGGGG	4726
445	GGGGGG GGTAGTAAAGA GGGGGT	1948	AGGAGC A ATGGGG	4727
448	GGGGGG GGTAGTAAAGA AATTTT	1949	GGGGGGT G GCGGGG	4728
456	GGGGGG GGTAGTAAAGA TGGGGG	1950	GGGGGGG G GCGGGG	4729
451	GGGGGG GGTAGTAAAGA GGGGGG	1951	GGGGGGG G GCGGGG	4730

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463	GUUCGGAC GGTAACTAAAGA GAGGTT	1952	AGGGGGGC G GGGGGGCG	4731
464	GUUCGGAC GGTAACTAAAGA GAGGTT	1953	GTCCTGGG G GCGGGCG	4732
472	GUUCGGAC GGTAACTAAAGA GAGGTT	1954	TTGGGGGG G GCGGGCG	4733
475	GGGGGG GGTAACTAAAGA GAGGTT	1955	GGGGGGGG G GCGGGGCC	4734
476	GGGGGG GGTAACTAAAGA GAGGTT	1956	GGGGGGGG G GCGGGCG	4735
480	CAUCGGAC GGTAACTAAAGA GAGGTT	1957	GGGGGG G GCGGGCG	4736
483	GGGGGG GGTAACTAAAGA GAGGTT	1958	GGGGGG G GCGGGCG	4737
485	TGGGGG GGTAACTAAAGA GAGGTT	1959	GGGGGG G GGGGGCG	4738
489	GGGGGG GGTAACTAAAGA GAGGTT	1960	GGGGGG G GGGGGCG	4739
492	CAUCGGAC GGTAACTAAAGA GAGGTT	1961	GGGGGG G ACGACGUG	4740
493	CAUCGGAC GGTAACTAAAGA GAGGTT	1962	GGGGGG G ACGACGUG	4741
497	ACGGAC GGTAACTAAAGA GAGGTT	1963	GGGGGG G GCGGGCG	4742
499	GGGGGG GGTAACTAAAGA GAGGTT	1964	GGGGGG G GCGGGCG	4743
503	AGGGGG GGTAACTAAAGA GAGGTT	1965	AGGGGG G GCGGGCG	4744
507	CAUCGGAC GGTAACTAAAGA GAGGTT	1966	GGGGGG G ACCGGG	4745
511	GTGGGG GGTAACTAAAGA GAGGTT	1967	GGGGGG G GCGGGCG	4746
515	CAUCGGAC GGTAACTAAAGA GAGGTT	1968	ACGGGG G GCGGGCG	4747
517	CGGGGG GGTAACTAAAGA GAGGTT	1969	GGGGGG G ACGGGCG	4748
519	GGGGGG GGTAACTAAAGA GAGGTT	1970	GGGGGG G GCGGGCG	4749
522	GGGGGG GGTAACTAAAGA GAGGTT	1971	GGGGGG G GCGGGCG	4750
524	GGGGGG GGTAACTAAAGA GAGGTT	1972	GGGGGG G GCGGGCG	4751
525	GGGGGG GGTAACTAAAGA GAGGTT	1973	GGGGGG G GCGGGCG	4752
533	ACGGGG GGTAACTAAAGA GAGGTT	1974	GGGGGG G GCGGGCG	4753
535	CCACGG GGTAACTAAAGA GAGGTT	1975	GGGGGG G GCGGGCG	4754
539	GGGGGG GGTAACTAAAGA GAGGTT	1976	GGGGGG G GCGGGCG	4755
542	CTGGGG GGTAACTAAAGA GAGGTT	1977	GGGGGG G GCGGGCG	4756
544	GGGGGG GGTAACTAAAGA GAGGTT	1978	GGGGGG G GCGGGCG	4757
552	GTGGGG GGTAACTAAAGA GAGGTT	1979	GGGGGG G GCGGGCG	4758
554	TGGGGG GGTAACTAAAGA GAGGTT	1980	GGGGGG G GCGGGCG	4759
558	CAUCGG GGTAACTAAAGA GAGGTT	1981	GGGGGG G ACCGGG	4760
563	GGGGGG GGTAACTAAAGA GAGGTT	1982	GGGGGG G GCGGGCG	4761

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565	GTGCTATG GCTTATGTTAATTA AATTTATA	1923	TACCACTT G CTCCTGTC	4762
567	CGCTGCGC GCTTATGTTAATTA ATTTATA	1924	CACTGGTT G GCGGCGCG	4763
571	CGGGGGGC GCTTATGTTAATTA ATTTATA	1925	GGGGGGGG G GCGGCGCG	4764
574	AATTTATC GCTTATGTTAATTA ATTTATA	1926	TTGGGGGG G GCGGGGGG	4765
577	GCTTATG GCTTATGTTAATTA ATTTATA	1927	GGGGGGGG G GCGGGGGG	4766
581	GCTTATG GCTTATGTTAATTA ATTTATA	1928	TTGGGGGG G GCGGGGGG	4767
582	CTTCTTCTT GCTTATGTTAATTA ATTTATA	1929	GGGGGGGG G GCGGGGGG	4768
586	CGGGGGGC GCTTATGTTAATTA ATTTATA	1930	CTTCTTCTT G GCGGGGGG	4769
591	CGGAGGGC GCTTATGTTAATTA ATTTATA	1931	TAACGCG G GCGGGGGG	4770
593	CTTCTTCTT GCTTATGTTAATTA ATTTATA	1932	AGGTCCTCT G GCGGGGGG	4771
595	TTTTTTTT GCTTATGTTAATTA ATTTATA	1933	TTGGGGGG G GCGGGGGG	4772
599	GCTTATG GCTTATGTTAATTA ATTTATA	1934	CTTCTTCTT G AATTAAGC	4773
605	CGGGGGGC GCTTATGTTAATTA ATTTATA	1935	CTTCTTCTT G GCGGGGGG	4774
610	GGGGGGGG GCTTATGTTAATTA ATTTATA	1936	TAATTTTG G GCGGGGGG	4775
616	CTTCTTCTT GCTTATGTTAATTA ATTTATA	1937	GGGGGGGG G GCGGGGGG	4776
619	TACCTTT GCTTATGTTAATTA ATTTATA	1938	CTTCTTCTT G ATACGUA	4777
621	AGGAGGGC GCTTATGTTAATTA ATTTATA	1939	CTGGGGAC G ATGCUAU	4778
623	GGGGGGGG GCTTATGTTAATTA ATTTATA	1940	CTTCTTCTT G GCGGGGGG	4779
627	GGGGGGGG GCTTATGTTAATTA ATTTATA	1941	ACACGTTA G GCGGGGGG	4780
631	TTGGGGGT GCTTATGTTAATTA ATTTATA	1942	GTGAGGGG G ACCGGGAA	4781
640	CGGGGGGG GCTTATGTTAATTA ATTTATA	1943	CTGGGGAA G ACCGGGGG	4782
641	TTTTTTAT GCTTATGTTAATTA ATTTATA	1944	CTTCTTCTT G GCGGGGGG	4783
645	GGGGGGGT GCTTATGTTAATTA ATTTATA	1945	CTTCTTCTT G GCGGGGGG	4784
651	GGGGGGGG GCTTATGTTAATTA ATTTATA	1946	TCCTGGAA G GCGGGGGG	4785
655	AGGGGGGG GCTTATGTTAATTA ATTTATA	1947	CTTCTTCTT G GCGGGGGG	4786
659	TTGGGGGT GCTTATGTTAATTA ATTTATA	1948	GGGAAAGG G GCGGGGGG	4787
660	GGGGGGGG GCTTATGTTAATTA ATTTATA	1949	GGGGGGAA G ACCGGGGG	4788
669	GAGGGTAT GCTTATGTTAATTA ATTTATA	1950	CTTCTTCTT A ATACGUA	4789
671	CTTCTTCTT GCTTATGTTAATTA ATTTATA	1951	GGACGATA G CGGGGGAA	4790
674	TTTTTTAT GCTTATGTTAATTA ATTTATA	1952	ACCAUAGC G GCGGGGGG	4791
683	ACGGGGGG GCTTATGTTAATTA ATTTATA	1953	GGGGGGGG G GCGGGGGG	4792

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689	AGGAGAC GGTAGTAAAGA CCGGCGCT	2014	AGGAGGCG G GUCCCCU	4793
690	TGGAAGC GGTAGTAAAGA CGATGGCG	2015	GGGCGCG G GTCGGCA	4794
691	GGGGGG GGTAGTAAAGA AGGGGGCG	2016	GGGGGGCG G GCGAGCG	4795
692	GGGGGG GGTAGTAAAGA TGGATGGCG	2017	GGGGGGCA G GCGGGCG	4796
714	CCTGGAC GGTAGTAAAGA CGGGCGCT	2018	AGGAGGCG G GAGGAGG	4797
716	GGGGGG GGTAGTAAAGA AGGGGGCG	2019	GGGGGGCG G GAGGAGG	4798
724	GGGGGG GGTAGTAAAGA CGGGGGCT	2020	GGGGGGCG G GCGGGCG	4799
726	GGGGGG GGTAGTAAAGA CGGGGGCT	2021	GGGGGGCG G GCGGGCG	4800
732	GGGGGG GGTAGTAAAGA CGGGGGCT	2022	GGGGGGCG G GAGGAGG	4801
735	GGGGGG GGTAGTAAAGA CGGGGGCT	2023	GGGGGGCG G GAGGAGG	4802
737	GGGGGG GGTAGTAAAGA CGGGGGCT	2024	GGGGGGCG G GCGGGCG	4803
741	ACTTGAC GGTAGTAAAGA TGGATGGCG	2025	GGGGGGCG G GCGGGCG	4804
747	CGGGGGCG GGTAGTAAAGA TGGATGGCG	2026	GGGGGGCG G GCGGGCG	4805
751	GCAGGGC GGTAGTAAAGA AGGGGGCG	2027	GGGGGGCG G GCGGGCG	4806
754	TGGGGAC GGTAGTAAAGA AGGGGGCG	2028	GGGGGGCG G GCGGGCG	4807
757	TCTGGGG GGTAGTAAAGA AGGGGGCG	2029	GGGGGGCG G GCGGGCG	4808
765	GGGGGGCG GGTAGTAAAGA CGGGGGCG	2030	GGGGGGCG G GCGGGCG	4809
772	GGGGGG GGTAGTAAAGA CGGGGGCG	2031	GGGGGGCG G GCGGGCG	4810
774	AGGGGGC GGTAGTAAAGA CGGGGGCG	2032	GGGGGGCG G GCGGGCG	4811
777	GGGGGG GGTAGTAAAGA CGGGGGCG	2033	GGGGGGCG G GCGGGCG	4812
779	GGGGGGCG GGTAGTAAAGA CGGGGGCG	2034	GGGGGGCG G GCGGGCG	4813
782	GGGGGGCG GGTAGTAAAGA CGGGGGCG	2035	GGGGGGCG G GCGGGCG	4814
790	GCTGGGG GGTAGTAAAGA TGGATGGCG	2036	GGGGGGCG G GCGGGCG	4815
796	GGGGGGCG GGTAGTAAAGA TGGATGGCG	2037	GGGGGGCG G GCGGGCG	4816
800	AGGGGGT GGTAGTAAAGA CGGGGGCG	2038	GGGGGGCG G GCGGGCG	4817
802	CAAGGGC GGTAGTAAAGA CGGGGGCG	2039	GGGGGGCG G GCGGGCG	4818
806	TGGGGAC GGTAGTAAAGA CGGGGGCG	2040	GGGGGGCG G GCGGGCG	4819
811	ACGGGGC GGTAGTAAAGA CGGGGGCG	2041	GGGGGGCG G GCGGGCG	4820
817	GGGGGGCG GGTAGTAAAGA CGGGGGCG	2042	GGGGGGCG G GCGGGCG	4821
824	GGGGGGCG GGTAGTAAAGA CGGGGGCG	2043	GGGGGGCG G GCGGGCG	4822
826	GGGGGGCG GGTAGTAAAGA CGGGGGCG	2044	GGGGGGCG G GCGGGCG	4823

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834	CGGCGCG GCTTAAACCA CGGCGCG	2045	CTACCGG G GCTGGGAGG	4824
839	CGGCGCG GCTTAAACCA CGGCGCG	2046	CTACCGG A ATGGGG	4625
841	GTCGAGC GCTTAAACCA GCTGGCG	2047	CTACCGG A ATGGGG	4826
843	GTCGAGC GCTTAAACCA GCTGGCG	2048	CTACCGG G GCGGGAC	4827
847	CACTGCT GCTTAAACCA GCTGGCG	2049	CTACCGG G GCGGGCG	4828
852	ACGTCAC GCTTAAACCA TCTGGAA	2050	CTACCGG A ATGGGG	4829
855	ACGACGT GCTTAAACCA TCTGGAA	2051	CTACCGG A ATGGGG	4830
858	GGAAACG GCTTAAACCA TCTGGAA	2052	CTACCGG G GGGGGUC	4831
861	ACGAAAC GCTTAAACCA TCTGGAA	2053	CTACCGG G GGGGGUC	4832
867	CAACACG GCTTAAACCA AAGAAAC	2054	CTACCGG G GGGGGUG	4833
869	GGACACG GCTTAAACCA AAGAAAC	2055	CTACCGG G GGGGGUC	4834
872	GGTGACAC GCTTAAACCA TCTGGAA	2056	CTACCGG G GGGGGAC	4835
874	CAATGAC GCTTAAACCA ACCACACA	2057	CTACCGG G GGGGGCG	4836
877	TGACGAC GCTTAAACCA GACACAC	2058	CTACCGG G ACGGGCA	4837
881	GGGGGAA GCTTAAACCA AATGAA	2059	CTACCGG G GGGGGAC	4633
885	CGGGGGG GCTTAAACCA CTTGGAC	2060	CTACCGG A ACCGGCG	4839
890	CGGGGGG GCTTAAACCA GGTGGCG	2061	CTACCGG G GGGGGAC	4840
894	GGGGGGG GCTTAAACCA GGTGGCG	2062	CTACCGG G GGGGGCG	4841
902	AGGGGGG GCTTAAACCA GGTGGCG	2063	AGACGCC A ACCGGCG	4842
915	GGGGGGG GCTTAAACCA AATGAA	2064	CTACCGG G GGGGGCG	4843
917	GGGGGGG GCTTAAACCA AATGAA	2065	CTACCGG G GGGGGCG	4844
919	GGGGGGG GCTTAAACCA AATGAA	2066	CTACCGG G GGGGGCG	4845
927	GGGGGGG GCTTAAACCA AATGAA	2067	CTACCGG G GGGGGCG	4846
929	GGGGGGG GCTTAAACCA AATGAA	2068	CTACCGG A ACGGGCA	4847
931	ACTGGGG GCTTAAACCA GGTGGCG	2069	CTACCGG G GGGGGAC	4848
922	GGGGGGG GCTTAAACCA GGTGGCG	2070	CTACCGG G GGGGGCG	4849
936	GTGGGGG GCTTAAACCA GGTGGCG	2071	CTACCGG A ACCGGAC	4850
942	GGGGGGG GCTTAAACCA GGTGGCG	2072	CTACCGG A ACCGGCC	4851
946	GGGGGGG GCTTAAACCA GGTGGCG	2073	CTACCGG A ACGGGCG	4852
950	GGGGGGG GCTTAAACCA GGTGGCG	2074	CTACCGG G GGGGGCG	4853
954	GGGGGGG GCTTAAACCA GGTGGCG	2075	CTACCGG G GGGGGCG	4854

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957	GTCAGTC GCTGATTAACAA GATGTTGATG	2016	GCTGATG G GCGGAC	4355
961	GTCAGTC GCTGATTAACAA TGGTTGATG	2017	GCGGACAA G GCGAACG	4856
963	CGCTGTT GCTGATTAACAA GATGTTGATG	2078	CGCGCAGC A ACCAGCG	4857
966	GTCAGTC GCTGATTAACAA GATGTTGATG	2079	CGCGACAA A AGCGGCG	4858
968	CGCTGTT GCTGATTAACAA GATGTTGATG	2080	AGCGGAT G GCGGGCC	4859
969	CGCTGTT GCTGATTAACAA GATGTTGATG	2081	GCGGACAA G GCGGAC	4860
979	ATGCTAT GCTGATTAACAA GATGTTGATG	2082	GCGGGCG A ACCACAU	4861
983	CGCTGTT GCTGATTAACAA GATGTTGATG	2083	GCGGACAA A ACACCGG	4862
985	CGCTGTT GCTGATTAACAA GATGTTGATG	2084	CGACGGAC A AGCGGCG	4862
988	CGCTGTT GCTGATTAACAA GATGTTGATG	2085	CGCGACAA G GCGGAC	4864
991	CGCTGTT GCTGATTAACAA GATGTTGATG	2086	AGACGAA G GCGAACG	4865
994	CGCTGTT GCTGATTAACAA GATGTTGATG	2087	CGCGGCG A ACACGTC	4866
997	AGCGGAT GCTGATTAACAA GATGTTGATG	2088	CGCGACAA A AGCGGCG	4867
999	CGCTGTT GCTGATTAACAA GATGTTGATG	2089	CGCGACAA A GCGGAC	4868
1008	AGCGGAT GCTGATTAACAA GATGTTGATG	2090	CGCGGCG A AGCGGCG	4869
1010	CGCTGTT GCTGATTAACAA GATGTTGATG	2091	CGCGGCG A AGCGGCG	4870
1012	GAAGGAG GCTGATTAACAA GATGTTGATG	2092	CGCGACAA G GCGGAC	4871
1017	CGCTGTT GCTGATTAACAA GATGTTGATG	2093	CGACGGCG A GCGGCG	4872
1025	CGCTGTT GCTGATTAACAA GATGTTGATG	2094	CGCGGCG G GCGGAC	4673
1027	CGCTGTT GCTGATTAACAA GATGTTGATG	2095	CGCGGCG G GCGGCG	4874
1029	CGCTGTT GCTGATTAACAA GATGTTGATG	2096	CGCGGCG A AGCGGAG	4875
1031	CGCTGTT GCTGATTAACAA GATGTTGATG	2097	CGCGGCG G GCGGAC	4876
1037	TGCTGTT GCTGATTAACAA GATGTTGATG	2098	AGCGGAG A ACCAGCA	4877
1042	GGAAAGC GCTGATTAACAA GATGTTGATG	2099	GAGACAA G GCGACCG	4878
1044	CGCTGTT GCTGATTAACAA GATGTTGATG	2100	GAGACAA A AGTTGTC	4879
1053	TTGCTGTT GCTGATTAACAA ATGTTGATG	2101	CGCGGCG A AGCGGCA	4660
1062	CGCTGTT GCTGATTAACAA GATGTTGATG	2102	CGCGGCG G GCGGACG	4881
1065	CGCTGTT GCTGATTAACAA GATGTTGATG	2103	CGACGGCG A AGCGGAG	4882
1072	CGCTGTT GCTGATTAACAA TCTTGTATG	2104	GAGACAA G GCGGAC	4863
1075	CGCTGTT GCTGATTAACAA TCTCTTATG	2105	AGCGGAG G GCGGCG	4834
1076	AGCGGAT GCTGATTAACAA ATGTTGATG	2106	GAGACAA G GCGGCG	4835

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1081	AGGAGTG GCTGAGCTTCAAGA AGCTGCG	2107	CACCGTG G GCGCTCT	4866
1093	AGGAGTG GCTGAGCTTCAAGA AGCTGAA	2108	UCGCGTG A AGTCGCG	4837
1098	TAATGAGT GCTGAGCTTCAAGA AGCTGAA	2109	CCUACUCA G GCUCUG	4838
1106	GGGTTAGT GCTGAGCTTCAAGA CTCAGTG	2110	TCATTCAG G GCGAGCG	4839
1113	AGTGAAGC GCTGAGCTTCAAGA TGGCGTC	2111	GAAGCUCA G GCGUGACU	4890
1118	GGCGAGC GCTGAGCTTCAAGA CAGCTTG	2112	CCAGCGTG A AGCGCCG	4891
1122	CGAGAGC GCTGAGCTTCAAGA CAGCTTG	2113	TCGACATG G GCGCGGG	4892
1124	CGGAGAGC GCTGAGCTTCAAGA CGGTTTG	2114	TCATTCAG G GCGGGAG	4893
1132	CGAGAGC GCTGAGCTTCAAGA CGTGGAC	2115	GGGCGGAG G GCGGGAG	4894
1135	GGGTTAGC GCTGAGCTTCAAGA GAGCTTG	2116	GGAGAGTC G GGGGAGAC	4895
1142	AGAGTGT GCTGAGCTTCAAGA CGCGAGA	2117	TCATTCAG G AGCGCTG	4896
1145	AGGAGAGC GCTGAGCTTCAAGA CGTGGAA	2118	GGGAGAGC G AGCGCGU	4897
1155	CGGGAGAC GCTGAGCTTCAAGA CGTGGAA	2119	GGGGAGAG G GCGCGGG	4898
1162	TCGAGAGC GCTGAGCTTCAAGA CGGGAGAC	2120	GGGGAGAG G GCGCGGG	4899
1169	CGGGAGAC GCTGAGCTTCAAGA CGTGGAG	2121	GCGCGGG A AGCGAGG	4900
1171	TCGAGAGC GCTGAGCTTCAAGA ATGGAGA	2122	CGCGTATG G GCGTGGAG	4901
1172	CGGGAGAGC GCTGAGCTTCAAGA CGCTGAA	2123	TCGAGGG G AGCGCGGG	4902
1182	CGGGAGAGC GCTGAGCTTCAAGA CGGGAGAC	2124	TAATGGTG G GCGAGTG	4903
1189	GGGGAGAGC GCTGAGCTTCAAGA AACATGGG	2125	CGGGAGAG G GCGCGGG	4904
1192	GGGGAGAGC GCTGAGCTTCAAGA AACATGGG	2126	CGGAGAU G AGCGGGCG	4905
1197	GGGGAGAGC GCTGAGCTTCAAGA CGGGAGAC	2127	GGGGAGAG G GCGCGGG	4906
1201	GGGGAGAGC GCTGAGCTTCAAGA AACATGGG	2128	CGGGAGAG G GCGCGGG	4907
1206	AGTGGAGC GCTGAGCTTCAAGA TGGGGAA	2129	CGGGAGAG G GCGCGGG	4908
1209	CCGATAGC GCTGAGCTTCAAGA CGTGGCG	2130	GGGGAGAG G GCGCGGG	4909
1212	GGGGAGAGC GCTGAGCTTCAAGA AGCGCTG	2131	CGAGCGCU A AGCGGAA	4910
1216	GGATGGC GCTGAGCTTCAAGA CGTGGCG	2132	CGGGAGAG G GCAAATCC	4911
1220	GGGGAGAGC GCTGAGCTTCAAGA ATGGCGT	2133	AGGGGAA A AGCGGGC	4912
1222	GGGGAGAGC GCTGAGCTTCAAGA ATGGCGA	2134	GGGAAAU G GCGGGCCC	4913
1225	ACAGGGC GCTGAGCTTCAAGA CGCTTTC	2135	CGGGAGAG G GCGCGGG	4914
1231	CGGAGAGC GCTGAGCTTCAAGA AGGGGGCG	2136	GGGGAGAG G GCGGGCG	4915
1240	CAAGGAGC GCTGAGCTTCAAGA TCGAGAA	2137	UUCCUGGA G GCGCGGG	4916

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1243	TCGCGAC GCTTAATTAACAA AGTAAAG	2138	CTTGATCT G CTGGGAA	4917
1251	CGGCGGT GCTTAATTAACAA TCGGAACT	2139	GGTTTAA A ACCAGCG	4916
1254	CTGGCGT GCTTAATTAACAA AGTAAAG	2140	TTGGAACT A AGCCGAG	4919
1256	CGTGGCG GCTTAATTAACAA ATGGTTC	2141	GGAAATAC G GCGAGAC	4920
1258	GAACTAC GCTTAATTAACAA TCGGAACT	2142	ATCCAGTC G GCAGGGCC	4921
1261	AGGGGAC GCTTAATTAACAA TCGGAACT	2143	CGTAAACA G GUCCCGU	4922
1263	GGAGGAC GCTTAATTAACAA AGTAAAG	2144	GGCTCTCT G ATCCGAC	4923
1269	CGGGCG GCTTAATTAACAA AGTAAAG	2145	GGGGGTT A ATGGGUG	4924
1274	AAGAGAC GCTTAATTAACAA CGTAAAG	2146	CTTCTCTG G GTCGCGU	4925
1276	TCGCGAC GCTTAATTAACAA AGTAAAG	2147	TAATTAAC G GTCGTTA	4926
1286	CGTGGCG GCTTAATTAACAA CTGGAACT	2148	TCCTGAG A AGCCACG	4927
1288	GGGAGCG GCTTAATTAACAA GTCGAACT	2149	CTGAGAC G GTCAGGCC	4928
1290	GGGGGGCG GCTTAATTAACAA GTCGAACT	2150	CAAGACG A AGGGCGG	4929
1291	GGGGGGCG GCTTAATTAACAA AGTGGCG	2151	GGAGGACU G GTCGTTG	4930
1297	CTGGCGAC GCTTAATTAACAA GTCGAACT	2152	CAUCGCG G GTCGAG	4931
1300	GGGGGGCG GCTTAATTAACAA AGTAAAG	2153	GGGGGGCG G GTCAGCG	4932
1304	ACGGGAGC GCTTAATTAACAA TCGGAACT	2154	GGGGCGA G GCGGGGU	4933
1307	GTAAGAC GCTTAATTAACAA AGTAAAG	2155	GGGGGGCG G GGGGGAC	4934
1310	GGGGGGCG GCTTAATTAACAA GTCGAACT	2156	GAATTAAC G GTCGCG	4935
1313	GGGGGGCG GCTTAATTAACAA GTCGAACT	2157	GGGGGGCG A AGCCAGC	4936
1319	GGGGGGCG GCTTAATTAACAA TCGGAACT	2158	GGGGGGCG GCAAGCGG	4937
1322	ACGGGAGC GCTTAATTAACAA TCGGAACT	2159	GGGGGGCG G GTCGTTG	4938
1326	ACGGGAGC GCTTAATTAACAA CGTAACT	2160	ATTAACCG G GTCGCGU	4939
1328	GGGAGCG GCTTAATTAACAA AGTAAAG	2161	GAATTAAC G GTCGTTG	4940
1332	GGGGGGCG GCTTAATTAACAA AGTAAAG	2162	GGGGGGCG G GTCGCGG	4941
1334	TCGGGGCG GCTTAATTAACAA AGTAAAG	2163	GGGGGGCG G GCGCGGA	4942
1345	CGTGGCG GCTTAATTAACAA TCGGAACT	2164	GGGGGGCG G GCGCGGA	4943
1353	CAAGAGAC GCTTAATTAACAA CGTAACT	2165	GGCCAGG G GCUUGUG	4944
1358	GGGGGGCG GCTTAATTAACAA AGTAACT	2166	ATGGGCGU G GUGGGGC	4945
1361	GGGGGGCG GCTTAATTAACAA CGTAACT	2167	GGGGGGCG G GGGGCC	4946
1364	TCGGGGCG GCTTAATTAACAA CGTAAAG	2168	GGGGGGCG G GCGCGGA	4947

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1380	GCGCGCGT GCTATGATTAATTA GCGCGCGT	2169	GTCAGTGG A AGACAGAC	4943
1382	GCGCGCGT GCTATGATTAATTA GCGCGCGT	2170	ATGAGAT A ATGAGCGC	4949
1385	ACGCGTC GCTATGATTAATTA GCGCGCGT	2171	ATGAGAT A ATGAGCGC	4950
1392	CAAGGAG GCTATGATTAATTA GCGCGCGT	2172	ATGAGCGC G CGCGCGCG	4951
1395	CGCGCGCG GCTATGATTAATTA GCGCGCGCG	2173	CGCGCGCG G CGCGCGCG	4952
1400	ATGATAC GCTATGATTAATTA GCGCGCG	2174	CGCGCGCG G CGCGCGCG	4953
1402	CGAGCGC GCTATGATTAATTA GCGCGCG	2175	CGCGCGCG G CGCGCGCG	4954
1405	CGAGCGC GCTATGATTAATTA GCGCGCG	2176	CGCGCGCA G CGCGCGCG	4955
1408	CGCGCGCG GCTATGATTAATTA GCGCGCG	2177	CGCGCGCG G CGCGCGCG	4956
1413	CGCGCGCG GCTATGATTAATTA GCGCGCG	2178	CGCGCGCG G CGCGCGCG	4957
1417	TGCGTG GCTATGATTAATTA GCGCGCG	2179	CGCGCGCA G CGCGCGCG	4958
1419	CGCGCGCG GCTATGATTAATTA GCGCGCG	2180	CGCGCGCG A ATGAGAC	4959
1422	GGGGGG GCTATGATTAATTA GCGCGCG	2181	CGCGCGCA G CGCGCGCG	4960
1425	GGGGGG GCTATGATTAATTA GCGCGCG	2182	CGCGCGCA G CGCGCGCG	4961
1428	ACACCTG GCTATGATTAATTA GCGCGCG	2183	CGCGCGCG G CGCGCGCG	4962
1430	CGCGCGCG GCTATGATTAATTA GCGCGCG	2184	CGCGCGCG G CGCGCGCG	4963
1438	ACGCGTC GCTATGATTAATTA GCGCGCG	2185	CGCGCGCG G GUACGGCG	4964
1440	GAAGCGT GCTATGATTAATTA GCGCGCG	2186	CGCGCGCG A ACGGCGCG	4965
1443	CAAGAGT GCTATGATTAATTA GCGCGCG	2187	CGCGCGCG G CGCGCGCG	4966
1445	CGCGCGT GCTATGATTAATTA GCGCGCG	2188	CGCGCGCG G CGCGCGCG	4967
1450	ACGCGTC GCTATGATTAATTA GCGCGCG	2189	CGCGCGCG G CGCGCGCG	4968
1454	ACGCGTC GCTATGATTAATTA GCGCGCG	2190	CGCGCGCG G CGCGCGCG	4969
1458	GGGAGCG GCTATGATTAATTA GCGCGCG	2191	CGCGCGCG G CGCGCGCG	4970
1462	GGGGCG GCTATGATTAATTA GCGCGCG	2192	CGCGCGCG G CGCGCGCG	4971
1464	CTGGCGC GCTATGATTAATTA GCGCGCG	2193	CGCGCGCG G CGCGCGCG	4972
1468	GGAGAGC GCTATGATTAATTA GCGCGCG	2194	CGCGCGCG G CGCGCGCG	4973
1472	GGGGGAG GCTATGATTAATTA GCGCGCG	2195	CGCGCGCG G CGCGCGCG	4974
1474	CTGGCGC GCTATGATTAATTA GCGCGCG	2196	CGCGCGCG G CGCGCGCG	4975
1482	GGAGGGC GCTATGATTAATTA GCGCGCG	2197	CGCGCGCG G CGCGCGCG	4976
1491	GGGGGGC GCTATGATTAATTA GCGCGCG	2198	CGCGCGCG G CGCGCGCG	4977
1498	GGGGGGC GCTATGATTAATTA GCGCGCG	2199	CGCGCGCG G CGCGCGCG	4978

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1509	TTCGTTG GCTTAATTAACAA GCTTGTAA	2200	CTTCAGGC A ACAAGAA	4979
1503	GCGTGT GCTTAATTAACAA TCTGGCTT	2201	CTGGCACA A AGGAAACGC	4980
1507	AGCGGT GCTTAATTAACAA TCTGGCTT	2202	CTGGCACA A AGGCGCTT	4981
1509	GAAGGCG GCTTAATTAACAA GCTTGTAA	2203	CTAACGAC G GCTTCCUC	4982
1512	GAGAAAT GCTTAATTAACAA GCTTGTAA	2204	CTAACGCG G GCTTCCUC	4983
1524	CTGGCTT GCTTAATTAACAA TCTGGCTT	2205	CTTCAGGA A ACACAAAG	4984
1526	TTCGTTG GCTTAATTAACAA GCTTGTAA	2206	CTTCAGAC A ACACAAAG	4985
1534	AAAGGAA GCTTAATTAACAA TTCTGGCTT	2207	CTTCAGAA G GUCCAUUC	4986
1536	AGGGAAAT GCTTAATTAACAA GCTTGTAA	2208	A GAA ATTC A ATTCCTT	4987
1552	TGCTAAAT GCTTAATTAACAA TTCTGGCTT	2209	CTTCAGAA G GATTCGCA	4988
1554	CTGGCGAT GCTTAATTAACAA TTCTGGCTT	2210	CTTCAGAC A ATTCCTT	4989
1556	ACTGCGC GCTTAATTAACAA ATTCCTT	2211	CTTCAGAAU G GTCACU	4990
1561	CTGGCGAT GCTTAATTAACAA TTCTGGCTT	2212	CTTCGCTAA G GTCUCGCG	4991
1567	CCTGAAAT GCTTAATTAACAA GCTTGTAA	2213	ATTCCTTC G GTCAGG	4992
1570	GTGGTTC GCTTAATTAACAA AGCTTGTAA	2214	CTTCGCTG G GTCAGTC	4993
1576	ATTCCTTC GCTTAATTAACAA TTCTGGCTT	2215	CTTCAGAA G GTCACAGU	4994
1580	TTCGAGT GCTTAATTAACAA AGCTTGTAA	2216	ATTCATTC A AGGAGAA	4995
1582	TCTTCAG GCTTAATTAACAA TTCTGGCTT	2217	CTTCAGAC G GUGGAGA	4996
1584	ACTGCGC GCTTAATTAACAA TTCTGGCTT	2218	CTGGGAG A ATGGGGU	4997
1593	CCGTCAT GCTTAATTAACAA TTCTGGCTT	2219	CTTCAGAA U GTCCTTGTG	4998
1595	TTCGAAAT GCTTAATTAACAA AGCTTGTAA	2220	ATTCAGAA G GTCCTGAA	4999
1597	ACTGCGC GCTTAATTAACAA AGCTTGTAA	2221	ATTCAGGU G GCGGAAU	5000
1602	ATTCAGT GCTTAATTAACAA AGCTTGTAA	2222	CTTCAGAC A ATTCCTT	5001
1605	CTGGCGAT GCTTAATTAACAA AGCTTGTAA	2223	CTTCAGAAU G GCGGUGG	5002
1607	AGCTAAAT GCTTAATTAACAA AGCTTGTAA	2224	CTTCAGCTT G GTCCTGCT	5003
1612	TTCGAAAT GCTTAATTAACAA AGCTTGTAA	2225	CTTCGCTG G GTCCTCA	5004
1615	CTGGCGAT GCTTAATTAACAA AGCTTGTAA	2226	CTTCAGAA G GTCAGGA	5005
1617	CTGGCGAT GCTTAATTAACAA AGCTTGTAA	2227	CTTCAGTC G GCGGAGC	5006
1623	CCCTGGAT GCTTAATTAACAA AGCTTGTAA	2228	CTTCAGAA G GCGGAGG	5007
1624	CTGGCGAT GCTTAATTAACAA AGCTTGTAA	2229	CTTCAGGG G GTCCTG	5008
1635	AACACAGC GCTTAATTAACAA GAACTTGTAA	2230	ATTCAGTG G GTCAGGU	5009

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1658	CGGAAAC GGTAGCTTAAAGA AGATTTAA	2231	GTTTTTGTG G GGTGTTTG	5010
1649	CGGAAAC GGTAGCTTAAAGA ATAGTTAA	2232	TTTGGTGGU G GUUCCGCG	5011
1646	TCTTGTG GGTAGCTTAAAGA TTATTTAA	2233	GGTTTGGG G GGTGAA	5012
1649	TGCTGTC GGTAGCTTAAAGA GGTTGAA	2234	TTTGGTGGU G GGTGAA	5013
1654	CGGAAAC GGTAGCTTAAAGA TTATTTAA	2235	GGTTGAGA G GTCGGGCG	5014
1656	CGAGTGG GGTAGCTTAAAGA GTCCTGG	2236	CGCAAGAC A ATGGCUG	5015
1659	AGGAAAC GGTAGCTTAAAGA GTCCTGG	2237	AGAGAAC G GUUCGGU	5016
1663	CGTAAAC GGTAGCTTAAAGA ATACGTTG	2238	TACGTTTG G GTCGGGCG	5017
1665	CGTAAAC GGTAGCTTAAAGA ATACGTTG	2239	TGTTGGTG G GTCGGGCG	5018
1673	GGGAGAT GGTAGCTTAAAGA CTCCTAC	2240	GGAGGGAG A ATTCGGC	5019
1679	ACTTGG GGTAGCTTAAAGA CAGATTT	2241	AGAACTTG G GCGAGGU	5020
1684	GGGAAAC GGTAGCTTAAAGA TTGGAA	2242	GGTTGGAA G GTCGGGCG	5021
1689	GGGAAAC GGTAGCTTAAAGA ATGGTTT	2243	AGGTTTCT G GCAUGGC	5022
1692	GGGGAAAC GGTAGCTTAAAGA ATGGAA	2244	GGTTGGTG A ATGGTTC	5023
1695	TGTTGGT GGTAGCTTAAAGA GATGGTG	2245	GTGCTGG G GTCGGGCG	5024
1709	AGTTGAC GGTAGCTTAAAGA CTCCTAC	2246	ATGGTGCG A ATTCGGC	5025
1704	GGGAAAC GGTAGCTTAAAGA TTATTTAA	2247	GGTTGGAA G GTCGGGCG	5026
1706	ACCTAAAC GGTAGCTTAAAGA ATCTTAA	2248	TTGTTGGU G GTCGGGCG	5027
1709	GGGGAAAC GGTAGCTTAAAGA ATGGTAC	2249	ATGGTGCG G GTCGGGCG	5028
1710	GACGAGT GGTAGCTTAAAGA ACACACTC	2250	GAGGTTGG A AGGGGAC	5029
1712	TGAACTA GGTAGCTTAAAGA GTCATTA	2251	GGTTGGAC G GTCGGGCG	5030
1715	AGTTGAC GGTAGCTTAAAGA GATTTAA	2252	GGTTGGAC G GTCGGGCG	5031
1720	TGAGTAC GGTAGCTTAAAGA TTGATTTG	2253	GGTTGGAC G GTCGGGCG	5032
1723	ACCTAAAC GGTAGCTTAAAGA ATGTTAA	2254	GGTTGGAC G GTCGGGCG	5033
1725	AGGGAAAC GGTAGCTTAAAGA CTGAGGG	2255	TTGCTGAG G GTCGGGCG	5034
1740	GGGACAT GGTAGCTTAAAGA AAAAGAA	2256	TTTGGTGG A ATGGACG	5035
1742	TGTTGAC GGTAGCTTAAAGA ATAAAAAA	2257	TCCTTAAAC G GTCGGGCG	5036
1745	GGGGAAAC GGTAGCTTAAAGA GTCATAA	2258	TTTAAAGTC A ATGGGAC	5037
1751	GGTGTGT GGTAGCTTAAAGA CGCGGAA	2259	TGCTGGAG A ACCAGTTT	5038
1754	TGAAATG GGTAGCTTAAAGA GGTGTTG	2260	CTGAGGAC A ACCGGCA	5039
1756	TGTTAAC GGTAGCTTAAAGA GTGGCTTC	2261	GAGACCAC G GUUCCAAA	5040

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1767	GAGCTGT GCTAATTAACCA TTTTTTA	2262	TTAAAGAA A ACAGGTC	5041
1771	AAAAGAGC GCTAGATTAACCA CTTTTTT	2263	AAAGAAAG G GCGCTTGT	5042
1782	CTTCGCT GCTAGATTAACCA AGAAAGG	2264	CTTCTTCTT A ACCCTAG	5043
1791	CTAAATG GCTAGATTAACCA TTTTTTG	2265	CGGGAGAA G GUGUCUGG	5044
1793	CTTCAGAC GCTAGATTAACCA ACTCTTC	2266	GGAAAGAU G GTCGAGAG	5045
1809	CAACGGG GCTAGATTAACCA TTGAAAA	2267	UUCUUCGAA G GAAUUCG	5046
1804	TTTCAA GCTAGATTAACCA TTTTTTA	2268	UAAAATAA G GUUGCAA	5047
1807	TGTTTGC GCTAGATTAACCA AACCTGT	2269	AGAAAGUU G GAAAGAA	5048
1812	TGTTATG GCTAGATTAACCA TTGAAAC	2270	UUCUUCAA G GCAUUGAA	5049
1814	AGGCAAT GCTAGATTAACCA GCTTGGAA	2271	UUCUAGC A AGTTCGAA	5050
1820	TGCTGTAT GCTAGATTAACCA TCCATTC	2272	UUCUUCG A AU-AAGAA	5051
1825	AGGCTGT GCTAGATTAACCA CTGATTC	2273	GGAAUUCG A ACAGCACU	5052
1828	TCAGTCG GCTAGATTAACCA TTCTTAT	2274	AGGAAAGA G SCACUUGA	5053
1830	CCGGAAAG GCTAGATTAACCA GCTTGG	2275	CTTAAATTC A ACCTTAAAG	5054
1841	AGCTGAA GCTAGATTAACCA CCTTTTA	2276	UUCAGAAAG G GUUGAGCU	5055
1843	GUAGCGC GCTAGATTAACCA AGCTTCT	2277	AAUAAAGC G GAAUUCG	5056
1846	CGGAGAT GCTAGATTAACCA TCTGCTT	2278	AGTTTCAA G GTCGCTCT	5057
1849	GGGGGG GCTAGATTAACCA ACGTAAAC	2279	AGCTTATU G GGGGGAGC	5058
1855	CGGAGAG GCTAGATTAACCA TTCTTGG	2280	UUCGCGAA A GUCGUCG	5059
1856	CTTGGCG GCTAGATTAACCA AGCTTGG	2281	UUCUUCAT G GUCGAAAC	5060
1865	ACCCGGG GCTAGATTAACCA TTCTGAA	2282	UUCUUCAA G GCAAGGGU	5061
1871	TGCTTAC GCTAGATTAACCA CTTCTTT	2283	AUCUAGC A GUCGAA	5062
1876	CTATCTG GCTAGATTAACCA CTGACCT	2284	GAGGGUAG G GCAGGAUC	5063
1879	CGGCTATG GCTAGATTAACCA TCTCTAC	2285	UUCAGGGC G GCAUGGG	5064
1881	TTTCTAA GCTAGATTAACCA AATGGTG	2286	UAGGAGC A AUUAGAA	5065
1882	GGGCTGC GCTAGATTAACCA TTCTGAT	2287	AUCUAAA G GCAAGTC	5066
1894	GGGGGG GCTAGATTAACCA CTCTTTC	2288	UAGGAGAG G GCGGGCC	5067
1893	AGGAGGG GCTAGATTAACCA GGCTTGG	2289	UAGGGCC G GCGGCU	5068
1903	AUCUAGC GCTAGATTAACCA AGCTTGG	2290	CCGGGTT G GCGTACU	5069
1907	CTTGTATG GCTAGATTAACCA CTGAAAG	2291	CCGCGTGG A AGCTTACG	5070
1909	GGGGGGG GCTAGATTAACCA GTCAGAG	2292	CCGCGGAC G GCGGAGC	5071

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1915	AGCTTACG GCTTACGAAAGA CTTGAACT	2793	AGGCGAG A ATTCGGU	5072
1920	GAATGAAAT GCTTACGAAAGA GAACTTAC	2794	CAACATCG G GCGGCAUC	5073
1925	TTGAGAT GCTTACGAAAGA GAACTTAC	2795	GGGCGGCG A ATCCCAA	5074
1933	CGTCAAG GCTTACGAAAGA GAACTTAC	2796	AGGCGAGA G GCGGAGC	5075
1935	CAAGGAGT GCTTACGAAAGA GAACTTAC	2797	CAAGCGCG A ACGGGCUG	5076
1942	GGTCAAG GCTTACGAAAGA GAACTTAC	2798	CGGAGCG G GCGGAGC	5077
1945	TCGCGCG GCTTACGAAAGA GAACTTAC	2799	GAAGACG G GCGGCGA	5078
1948	CAATCGCG GCTTACGAAAGA GAACTTAC	2800	GGGCGGCG G GCGGAGC	5079
1952	TCGAGAT GCTTACGAAAGA GAACTTAC	2801	GGGAGCG A AUUGGAA	5080
1955	ATTTTAC GCTTACGAAAGA AAATTTAC	2802	GGGCGGCG G GCGGACAU	5081
1959	CTTATAT GCTTACGAAAGA TTAATAC	2803	GAUUCGAG A ACAGGAC	5082
1961	TATCGCG GCTTACGAAAGA GAACTTAC	2804	UUCGCGAAC A AUUGGAA	5083
1965	GAATGAG GCTTACGAAAGA GAACTTAC	2805	GAACATCG A ATTCGCG	5084
1968	CGGCGAT GCTTACGAAAGA ATTCGAT	2806	CAATGAGG A ATTCGUG	5085
1970	UUCAGAC GCTTACGAAAGA GAACTTAC	2807	UCAATACG G GCGGAGG	5086
1973	GGGCGCG GCTTACGAAAGA GAACTTAC	2808	ACUAGCG G GCGGAGC	5087
1979	GGGGCGCG GCTTACGAAAGA GAACTTAC	2809	GGGCGCG G GCGGAGC	5088
1985	GGGAGCG GCTTACGAAAGA GAACTTAC	2810	GAGGTTAGA A ACCGTTTG	5089
1987	GGGGAGG GCTTACGAAAGA GAACTTAC	2811	GGGCGAGC G GCGGAGC	5090
1992	TTTTCGCG GCTTACGAAAGA GAACTTAC	2812	AGGCGCG G GCGGAGA	5091
2006	GGGGAGG GCTTACGAAAGA GAACTTAC	2813	AAAGAGCG G GCGGAGG	5092
2011	TCGAGAG GCTTACGAAAGA GAACTTAC	2814	AGGGCGAG G GCGGCGA	5093
2013	GGGGCGCG GCTTACGAAAGA GAACTTAC	2815	GGGCGAG G GCGGAGC	5094
2018	CTTACGAT GCTTACGAAAGA GAACTTAC	2816	AGCGCGCG A ACCUGAG	5095
2027	GGTGTAC GCTTACGAAAGA GAACTTAC	2817	CGGAGCG G GCGGAGC	5096
2033	AAACTTG GCTTACGAAAGA GAACTTAC	2818	GGGGAGCG G GCGGAGC	5097
2035	TTAAATCG GCTTACGAAAGA GAACTTAC	2819	GGGCGAGC G GCGGAGA	5098
2038	CGCTAAC GCTTACGAAAGA GAACTTAC	2820	AAGGCGAC G GCGGAGC	5099
2043	GGGGCGCG GCTTACGAAAGA GAACTTAC	2821	ACGCGTCA G GCGGAGC	5100
2045	TTGAGAC GCTTACGAAAGA GAACTTAC	2822	GGGCGCG G GCGGAGA	5101
2047	AGTTGAG GCTTACGAAAGA GAACTTAC	2823	TTTACGCGU G GCUACU	5102

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2052	CTCTGAGC GGTAGTAAAGA TGGTATG	2324	CGCTTGAA A ATTCAGAG	5103
2055	GGGTGTT GGTAGTAAAGA ATTTGAGC	2325	GGTAACTT A ACCAGGGG	5104
2054	ATGTTGCG GGTAGTAAAGA TTGTTGTT	2326	AACTAACTA G GCGGGGGG	5105
2053	GGGGGGC GGTAGTAAAGA GCGCTCT	2327	AGGAAAGG G AGGGGGCG	5106
2065	GGGGGGC GGTAGTAAAGA GCGCTCT	2328	GGGGGGGG G GGGGGGGC	5107
2068	GGGGGGC GGTAGTAAAGA GCGCTCT	2329	GGGGGGGG G GGGGGGGG	5108
2070	GGGGGGG GGTAGTAAAGA GCGCTCT	2330	GGGGGGGG G GGGGGGG	5109
2075	GGGGGGC GGTAGTAAAGA GCGCTCT	2331	GGGGGGGG G GGGGGGG	5110
2085	AGAGAGAG GGTAGTAAAGA GAGGGG	2332	GGGGGGGG G GGGGGGG	5111
2087	AGAGAGAG GGTAGTAAAGA GGGGGG	2333	GGGGGGGG G GGGGGGG	5112
2092	GGAGAGAG GGTAGTAAAGA AGGGGG	2334	GGGGGGGG G GGGGGGG	5113
2095	GGGGGG GGTAGTAAAGA AGGGGG	2335	GGGGGGGG G GGGGGGG	5114
2100	GGGGGG GGTAGTAAAGA GGGGGG	2336	GGGGGGGG G GGGGGGG	5115
2106	GATATGG GGTAGTAAAGA AGGGGG	2337	GGGGGGGG A AGGAAUAC	5116
2109	GTTGAT GGTAGTAAAGA GGGGGG	2338	GGGGGGGG A AUATGAC	5117
2111	CTCTGAGC GGTAGTAAAGA AGGGGG	2339	GGGGGGGG A AUCAACAG	5118
2115	GGGGGGT GGTAGTAAAGA GGGGGG	2340	GGGGGGGG A ATAGGGGG	5119
2120	GGGGGG GGTAGTAAAGA GGGGGG	2341	GGGGGGGG G GGGGGGG	5120
2125	AGAGAGAG GGTAGTAAAGA GGGGGG	2342	GGGGGGGG A GGGGGGG	5121
2127	GAAGAGAG GGTAGTAAAGA GGGGGG	2343	GGGGGGGG G GCACTTC	5122
2129	AGTAAAGT GGTAGTAAAGA GGGGGG	2344	GGGGGGGG A ATGGGGGG	5123
2125	GGAGAGAG GGTAGTAAAGA GGGGGG	2345	GGGGGGGG G GGGGGGG	5124
2137	CACTGAGC GGTAGTAAAGA AGGGGG	2346	GGGGGGGG G GGGGGGG	5125
2140	GGAGAGAG GGTAGTAAAGA AGGGGG	2347	GGGGGGGG G GGGGGGG	5126
2142	GGAGAGAG GGTAGTAAAGA AGGGGG	2348	GGGGGGGG G GGGGGGG	5127
2144	GGGGGG GGTAGTAAAGA AGGGGG	2349	GGGGGGGG G GGGGGGG	5128
2146	GGGGGG GGTAGTAAAGA AGGGGG	2350	GGGGGGGG G GGGGGGG	5129
2150	GGGGGG GGTAGTAAAGA AGGGGG	2351	GGGGGGGG G GGGGGGA	5130
2157	GGGGGG GGTAGTAAAGA GGGGGG	2352	GGGGGGGG A AGGGGG	5131
2161	CACTGAGC GGTAGTAAAGA AGGGGG	2353	GGGGGGGG G GGGGGGG	5132
2164	GGGGGG GGTAGTAAAGA AGGGGG	2354	GGGGGGGG G GGGGGGG	5133

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2170	ACGACAC GCTTACATTAACAA TTAATGTTG	2355	CGCGCTGA G CGTGUACU	5134
2173	CAAATAC GCTTACATTAACAA AGCTTGTG	2356	CCUGAGCU G GUACUTUG	5135
2175	GUUAGGU GCTTACATTAACAA AGCTTGTG	2357	UAGCTTCTT A ACCTTGTC	5136
2180	ACCTTGTC GCTTACATTAACAA AGCTTGTG	2358	UGUACUTU G GUCAAGGU	5137
2186	ACGACAC GCTTACATTAACAA CTTACAA	2359	UUGCTTCAAG G GUGGAIGU	5138
2190	CGTAAAT GCTTACATTAACAA GATCTTG	2360	UAAAGUGG A AUGUACG	5139
2192	CGCTGAT GCTTACATTAACAA ATTCATTT	2361	ACGTTGAAU G GUACATTC	5140
2195	GUUAGGU GCTTACATTAACAA CAAACAA	2362	UCAAGCTG A ACCTTGCG	5141
2199	GUUAGGU GCTTACATTAACAA CAAACAA	2363	UGUAGACG G GUACGUAC	5142
2201	TGCTTACG GCTTACATTAACAA CAAACAA	2364	UAGCTTCTT G GUUATGA	5143
2202	TGCTTACG GCTTACATTAACAA CGCGCTTG	2365	ACGCTTCTG G GUAGACAA	5144
2205	GCTTACGT GGTATTAACAA AATGTTTG	2366	CGCGCGGU A ACGACACC	5145
2208	GAATGAT GCTTACATTAACAA CTTAUGG	2367	CGCGUACG A ACACCAUC	5146
2210	CGTATAT GCTTACATTAACAA CGCTTGT	2368	UAGUACAC A ACCATTC	5147
2213	TGAAACAT GCTTACATTAACAA CGCTTGT	2369	ACGACACG A AGCCCCAA	5148
2222	CGCGCTT GCTTACATTAACAA CGCTTGT	2370	CGCTTCTG A ACAGGCC	5149
2227	CGCGCTAC GCTTACATTAACAA CGCTTGT	2371	CACTATAG G GUUACCG	5150
2231	ACGCTTAC GCTTACATTAACAA CGCTTGT	2372	ACAGATUC A ACCTGGU	5151
2237	GGGAGAA GATTAATTAACAA CTTCTGGA	2373	UCAAGUAG G GUACURGC	5152
2240	CTTGTGAA GCTTACATTAACAA CGCTTGT	2374	UCAAGUUC A ACCCTGAG	5153
2243	ATGATGTC GGTATTAACAA GATCTTG	2375	ACGTCAC G GTCGACAU	5154
2247	ATGATGTC GGTATTAACAA GATCTTG	2376	CAUCGCA G GCAUCAC	5155
2249	UUGATGAT GGTATTAACAA GCTGGGAA	2377	UCACTAGC A AUCAUCAA	5156
2252	CGTATAT GGTATTAACAA GATCTTG	2378	CGACGACG A AUCAAACC	5157
2257	TCTGGTT GGTATTAACAA TTTATGAT	2379	AUCAUCAA A ACCCGAGA	5158
2265	CTTATGT GGTATTAACAA TTTATGAT	2380	ACCCAGAA A ACATGUAC	5159
2267	CACATAC GGTATTAACAA CGCTTGTG	2381	ACCGAGAC A ACGUACUG	5160
2269	CGTATAC GGTATTAACAA CGCTTGTG	2382	CGAAACAC G GUACUGCG	5161
2271	CAUCGAC GGTATTAACAA AGCTGTC	2383	GAACAGU A ACUGCGUG	5162
2274	ACGACAC GGTATTAACAA AGCTGTC	2384	UAGUACU G GTCGGGU	5163
2276	CGACGAC GGTATTAACAA CGCTTGTG	2385	CGUACUG G GUGCGUG	5164

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2272	ACGAGC GCTTGTAAAC AGGACTA	2386	UACUUCU G GTCGCGU	5165
2280	ATACGAC GCTTGTAAAC AGGACTA	2387	UUCGUCG G GTCGGAU	5166
2284	GGGATAC GCTTGTAAAC GTCGCG	2388	GUUCGCG G GTCGGCG	5167
2286	CACCGAT GCTTGTAAAC AGGACTA	2389	GUUCGGU A AGGCGUG	5168
2288	ACGAGC GCTTGTAAAC ATACGAC	2390	GUUCGGU G GTCGGGU	5169
2291	GGGATAC GCTTGTAAAC AGGACTA	2391	GUUCGGU G GTCGGCA	5170
2294	TCTGAA GGTAGCTAAAGA CACGGAT	2392	AUGGCGU G GUCCGAA	5171
2302	TCGCGCG GGTAGCTAAAGA CTCCTGA	2393	UUCGAGG G GTCGGCA	5172
2306	CGATGCG GGTAGCTAAAGA CGTCCT	2394	AGAAAGG G GTCGGCG	5173
2310	GGGCGAT GGTAGCTAAAGA CGTCCT	2395	AGGCGCG A AUGGCGAC	5174
2314	GGACGG GGTAGCTAAAGA CGTCCT	2396	GGCCAGG G GTCGGCC	5175
2316	GGGCGAT GGTAGCTAAAGA CGTCCT	2397	GUUCGGU A AGGCGCG	5176
2318	GGGGGAG GGTAGCTAAAGA CGTCCT	2398	AUGGCGA G GUCCGAA	5177
2322	GGGGGG GGTAGCTAAAGA CGTCCT	2399	GUACGGC G GCAAGGCC	5178
2327	TTGAAAG GGTAGCTAAAGA CGTCCT	2400	UCGGAAAG G GCCUCAA	5179
2337	GGGGGG GGTAGCTAAAGA CGTCCT	2401	GUUCAGA G GCGACCG	5180
2340	AGGCGCG GGTAGCTAAAGA CGTCCT	2402	GUACGGC A AGGCGCU	5181
2342	GGGAGCG GGTAGCTAAAGA CGTCCT	2403	AGAGCGC G GCGUAC	5182
2348	GGGAGCG GGTAGCTAAAGA CGTCCT	2404	ACGUCGU A ACCUGAC	5183
2354	AGGCGCG GGTAGCTAAAGA CGTCCT	2405	GUACGGU A ACAGACCU	5184
2358	GGGGGG GGTAGCTAAAGA CGTCCT	2406	GUUGACAG A ACCUCAG	5185
2365	GGGAGCG GGTAGCTAAAGA CGTCCT	2407	GUACGGU G GCGUACA	5186
2368	GGGGGG GGTAGCTAAAGA CGTCCT	2408	GUCCAGG G GUACUGC	5187
2370	TCGCGCG GGTAGCTAAAGA CGTCCT	2409	UCGGACU A ACAUGGA	5188
2372	TCGCGCG GGTAGCTAAAGA CGTCCT	2410	AGGCGAC A AGGCGCA	5189
2374	ACGCGCG GGTAGCTAAAGA CGTCCT	2411	GGGGACU G GCGACAGU	5190
2377	CGACGCG GGTAGCTAAAGA CGTCCT	2412	UACAGCG A ACAGUGC	5191
2385	GGGGGG GGTAGCTAAAGA CGTCCT	2413	AGGCGAC G GUUGUGG	5192
2384	T GAGCG GGTAGCTAAAGA CGTCCT	2414	GGACGGC G GUCCGCA	5193
2387	AGGCGCG GGTAGCTAAAGA CGTCCT	2415	AGGCGCG G GTCGACU	5194
2391	GGGGGG GGTAGCTAAAGA CGTCCT	2416	CGTCGTC A ACCUGAG	5195

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2395	TCTCTTC GCTACCTAACGAA AGGAGGTC	2417	GTCATTCU G GTCAGAGA	5196
2402	GGGTGGT GGTATTAACAA CTCUUGCAG	2418	UUCGGGAA A ACCAGCC	5197
2406	CAATGGT GGTATTAACAA TGTTCG	2419	GTCAGAGA G GCGCGUG	5198
2410	CCCTGAG GGTATTAACAA GGGTTGTT	2420	ATGGGAA G GTCAGAGG	5199
2415	GGGTGGT GGTATTAACAA GCGCGAG	2421	GTCAGAGG A ATGGGTC	5200
2420	GGGTGGT GGTATTAACAA ATGGGAA	2422	UAGGGAA G GCGCGCG	5201
2423	AGGAGAC GGTATTAACAA GGTGGTC	2423	TTTATGGC G CTCCTTC	5202
2426	TGGAGAC GGTATTAACAA GAGGCGA	2424	ATGGGAA G GTCAGAGA	5203
2429	TGGAGAC GGTATTAACAA GAGGAGA	2425	GGGGTTA A ATGGGCA	5204
2434	ATTTTAA GGTATTAACAA TGTATGA	2426	GTCAGAGA G GCGAGGU	5205
2437	GGGGTTA GGTATTAACAA TGTGGTG	2427	GTCAGAGA G GTCGCGC	5206
2451	GGGGTTA GGTATTAACAA TGTGGTG	2428	GGGGTTA A ATGGGTC	5207
2455	CTTGGGGT GGTATTAACAA GGTATGA	2429	GGGGTTA G GTCAGAGA	5208
2460	GGGGTTA GGTATTAACAA TGTGGTG	2430	GGGGTTA G GTCGCGC	5209
2463	GGGGTTA GGTATTAACAA TGTGGTG	2431	GGGGTTA G GTCGCGC	5210
2466	GGGGTTA GGTATTAACAA TGTGGTG	2432	GGGGTTA G GTCGCGC	5211
2475	GGGGTTA GGTATTAACAA GGTATGA	2433	GGGGTTA A ATGGGUC	5212
2477	GGGGTTA GGTATTAACAA GTGGAGA	2434	UUCGGGAC G GTCGCGC	5213
2485	GGGGTTG GGTATTAACAA AGGAGAA	2435	GGGGTTA A ATGGGCA	5214
2487	CATGAAAG GGTATTAACAA GTCAGAGA	2436	UUCGGGAC G GTCGCGA	5215
2492	GGGGTTA GGTATTAACAA GAGGAGA	2437	UAGGGUU A ATGGGCA	5216
2494	GGGGTTG GGTATTAACAA ATGGGAG	2438	GGGGTTA G GTCGCGC	5217
2496	GGGGTTG GGTATTAACAA ATGGGAG	2439	UUCGGGUG G GCCACAC	5218
2499	GGGGTTG GGTATTAACAA GAGGAGA	2440	GGGGTTA A ACCAGCC	5219
2502	GGGGGGT GGTATTAACAA GGTGGGAC	2441	GGGGTTA A ATGGGTC	5220
2504	GGGGGGT GGTATTAACAA GGTGGGAC	2442	GGGGTTA G GTCGCGS	5221
2507	ATGGGAA GGTATTAACAA AGGAGAG	2443	ACGAGGTC G GUGCGCAU	5222
2509	TATGGAA GGTATTAACAA AGGAGAG	2444	CACGGGCU G GCGAUCAU	5223
2511	GGGGGGT GGTATTAACAA GCAAGGCG	2445	GGGGTTA G GCAUCAGG	5224
2513	GGGGGGT GGTATTAACAA GGTGGAGG	2446	GGGGGGC A AUAGGGG	5225
2520	GGGGGGT GGTATTAACAA GGTGGAGG	2447	CAUCAGG G GCAAGGCC	5226

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2524	CGTAAAC GGTGTTTCAAGA TTCTTCTT	2442	AGGTTTAA G GUCCGAC	5227
2529	CGGAGCT GGTGTTTCAAGA AGGATTTG	2443	TAATGCTG A AGTTTAA	5226
2531	CACTGAC GGTGTTTCAAGA GTCCTAT	2450	ATGGTAC G GTCAGTG	5229
2536	CCTGGAA GGTGTTTCAAGA TGAATTA	2451	TAATGCTG A GTCAGTG	5230
2538	CCCTGGG GGTGTTTCAAGA ATGTTAA	2452	CTTCCTGG G GTCAGGG	5231
2545	TGCCTTAT GGTGTTTCAAGA CTCCTTG	2453	GGTAAAGG A ATGCGTA	5232
2551	AGGCTTA GGTGTTTCAAGA GAGTTTG	2454	GGGAAATG G GTCAGGU	5233
2556	GAGGAGC GGTGTTTCAAGA CGCTTGG	2455	CTTCCTGG G GTCAGTC	5234
2561	GGAGGAT GGTGTTTCAAGA GAACTCT	2456	AGGGTTCG A AUCCGTC	5235
2570	AGGCTT GGTGTTTCAAGA GGTGAA	2457	TCCTTCTG A ATGGGGU	5236
2572	AGAGAGC GGTGTTTCAAGA GGGGAGG	2458	TCCTCAG G GTCAGGU	5237
2575	TGGAGAC GGTGTTTCAAGA AATGGAA	2459	TCCTGGTG G GTCAGCA	5238
2580	UAGGTCG GGTGTTTCAAGA AATGGAA	2460	GGGTTTAC G GTCAGCG	5239
2583	GGGAGAC GGTGTTTCAAGA TGGAAAC	2461	GGGTTGCA G GCGGGCG	5240
2587	GGTGGAC GGTGTTTCAAGA AATGGAA	2462	GGGAGCTG T GGGTACG	5241
2589	GGGTGAC GGTGTTTCAAGA AATGGAA	2463	GGGGTGGG G GTCAGTC	5242
2592	GTGGGTG GGTGTTTCAAGA AATGGAA	2464	GGGGGGTG A ATGGTAC	5243
2595	GTGGTGT GGTGTTTCAAGA AATGGAA	2465	GGGGTACG G GGGAGTG	5244
2598	GTGGTGT GGTGTTTCAAGA AATGGAA	2466	GTGGGGTG A AGGGAG	5245
2600	TTGGTGT GGTGTTTCAAGA GTCGGGT	2467	AGGGGAC A AUGGAAA	5246
2607	GGGGTGT GGTGTTTCAAGA TGGTGTG	2468	CAUGGAGA A ACGAGCG	5247
2611	CAAGACG GGTGTTTCAAGA TTGGTGTG	2469	GAGGACAA G GCGTGG	5248
2614	CGTAAAC GGTGTTTCAAGA AGCTGGTT	2470	AAACAAGTG G GUUUGGG	5249
2618	ATGGTGT GGTGTTTCAAGA AAACGCT	2471	AGGGGGTG G GCGGGAA	5250
2624	GGGGTGT GGTGTTTCAAGA CGGGGAA	2472	GGGGGGTG A ATTTGGTG	5251
2629	GGGGGGG GGTGTTTCAAGA CGGGGG	2473	GGGGGGG G GTCAGTG	5252
2634	GGGGGT GGTGTTTCAAGA CGGGGG	2474	GGGGGGG A ATGGGGCG	5253
2629	GGGGGG GGTGTTTCAAGA CGGGGG	2475	GGGGGGG G GTCGGTC	5254
2641	GGGGGG GGTGTTTCAAGA AGCTGGTC	2476	GGGGGGG G GTCGGTC	5255
2647	GGGGGG GGTGTTTCAAGA AGCTGGAA	2477	GGGGGGG G GCGGGGG	5256
2649	GGGGGG GGTGTTTCAAGA GCAAGAA	2478	GGGGGGG G GTCGGGG	5257

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2654	TGAGGCG GCTTAATTAATTA CAAAGCA	2473	UUCUUCUUC G GUGGUGA	5258
2658	GAAATCAT GCTAGCTACAACGA CCACCAA	2480	UUGGUGAG A AUGAUUC	5259
2661	CAAGAAAT GCTAGCTACAACGA CTCGACG	2481	GGGGAGG A AUUCUUC	5260
2668	TGAGGCG GCTTAATTAATTA AGGAAAT	2482	GAUUCUU G GUGGUGA	5261
2672	GGCTGGT GCTTAATTAATTA CACAGAA	2483	UUCUUCUUC G GUGGAGC	5262
2675	TGAGGCG GCTAGCTACAACGA CACAA	2484	UUCUUCUUC A ACACCAA	5263
2677	GGTGAACT GCTTAATTAACGA GTCACCA	2485	UUGGUGAC A ACUCACC	5264
2682	GCGGAGGT GCTAGCTACAACGA GAGGTT	2486	UACACUC A ACUCACC	5265
2687	GGCTGGT GCTTAATTAATTA GAGGAA	2487	UUGGGUC A ACCACCC	5266
2691	TTTGGGTT GCTTAATTAATTA GCTTAA	2488	UUCUUCUUC A ACUGGAA	5267
2693	GGTTTGG GCTTAATTAATTA GTCGGAA	2489	UCAUCAC G GCGAAAC	5268
2695	GGTGAACT GCTTAATTAATTA GTCGGAA	2490	AUUAAA A ACUCUU	5269
2711	ACUAGGTT GCTAGCTACAACGA CCTGGAA	2491	UCCUCCG A ACCUGGU	5270
2717	CCUGGGAC GCTTAATTAATTA CAGGTT	2492	UACAUUC G GUUGGAGG	5271
2724	ACUAGGTT GCTTAATTAATTA GTCGGAA	2493	UUCUUCG G GUUCCCU	5272
2726	GGAGGAC GCTTAATTAATTA ACGGCGA	2494	UCCGAGG G GUCCCGA	5273
2734	ACUAGGTT GCTTAATTAATTA TCGGGAA	2495	GUUCUUA G GUAGGACU	5274
2736	GGGGAGG GCTTAATTAATTA AGCGGCG	2496	GGGAGGU A AUUGGCC	5275
2739	GGGGAGG GCTTAATTAATTA GTCAGGG	2497	UGAAGAU G GUUGGUGG	5276
2742	CAUAGGCG GCTTAATTAATTA AGGAAAT	2498	GUAGGAA G GCGGGGUG	5277
2744	TCACGAC GCTTAATTAATTA AGGAAAT	2499	AUGGUUC G GUUGGAAA	5273
2747	AAGTTACG GCTTAATTAATTA CGGGCG	2500	GUUGGUG G GUAGCCU	5279
2751	GGGGAGG GCTTAATTAATTA AGGTTAA	2501	GUUGGUGA A AUUCUCC	5280
2755	TCTTGGC GCTTAATTAATTA AGGTTAA	2502	GUAGACUU G GCGGAGA	5281
2762	ACUAGGTT GCTTAATTAATTA CGGGCGA	2503	GUAGGAA G ACACCCU	5232
2765	TTTAAAC GCTTAATTAATTA TCTTTC	2504	GGAGGAC G GUGGUGA	5263
2768	AAAGGGAC GCTTAATTAATTA CACTGCT	2505	AGACAGG G GUGAACUU	5264
2772	AGGAAAGT GCTAGCTACAACGA TCAACCT	2506	AGUGGUGA A ACUCCCU	5285
2780	TCCTTGAC GCTTAATTAATTA AGGAAAT	2507	ACUCCCU G GUAGAGA	5286
2787	GGCTGGT GCTTAATTAATTA CTP-TAA	2508	UUUAAA G ACCAGGCC	5287
2792	GGCTGGT GCTTAATTAATTA CGGGCG	2509	AAAGCAGG G GCGGCGG	5288

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2799	CGTGCTAC GCTTGTCTTAACTAA CAACTGCG	2516	CGTTCAGG G GCGACAG	5239
2802	ACCCGTCG GCTTGTCTTAACTAA CAACTGCG	2511	TCAGGCGG G GCGACAG	5290
2804	AAAGCTT GCTTGTCTTAACTAA CAACTGCG	2512	TGTTTTCG A GCGCTTT	5291
2807	ACAAAGC GCTTGTCTTAACTAA CAACTGCG	2513	TTGGCG G GCGUUGG	5292
2813	ATCTAACT GCTTGTCTTAACTAA CAACTGCG	2514	TCGCTTT G GCGAGAU	5293
2819	GGCGCAT GCTTGTCTTAACTAA CAACTGCG	2515	TCGTCAGG A AUGGGC	5294
2821	GGGGCGG GCTTGTCTTAACTAA CAACTGCG	2516	CGTCAGAU G GCGTTCG	5295
2825	GGGGCGC GCTTGTCTTAACTAA CAACTGCG	2517	AGAUAGG G GCGACAG	5296
2829	TGGCGCT GCTTGTCTTAACTAA CAACTGCG	2518	GGGGCGCC A AGCGCTAA	5297
2831	GGATGG GCTTGTCTTAACTAA CAACTGCG	2519	GGTCAGG G GCGACAG	5298
2835	AGGGAACT GCTTGTCTTAACTAA CAACTGCG	2520	CAAGTCU A AGCGCCU	5299
2845	GGGGCGAC GCTTGTCTTAACTAA CAACTGCG	2521	TCGCGGG G GCGGGCC	5300
2847	GGGGCGC GCTTGTCTTAACTAA CAACTGCG	2522	CGGCGGAG G GCGCCUG	5301
2850	GGGGCGG GCTTGTCTTAACTAA CAACTGCG	2523	GGGGCGGG G GCGCGCG	5302
2854	GGGGCGT GCTTGTCTTAACTAA CAACTGCG	2524	GGGGCGGG G GCGCGUGG	5303
2857	TCGGCGAC GCTTGTCTTAACTAA CAACTGCG	2525	GGGGCGGG G GCGACAGA	5304
2862	GGGGCGAT GCTTGTCTTAACTAA CAACTGCG	2526	GGGGCGGG A AAACCGG	5305
2864	GGGGCGCT GCTTGTCTTAACTAA CAACTGCG	2527	GGGGCGAU A ACCGGAC	5306
2870	GGGGCGCT GCTTGTCTTAACTAA CAACTGCG	2528	AGACCGAG A ACCCGGA	5307
2879	CTTCGAG GCTTGTCTTAACTAA CAACTGCG	2529	GGGGCGAG G GCGAGAG	5308
2881	GGGGCGT GCTTGTCTTAACTAA CAACTGCG	2530	GGGGCGGU G GCGAGCG	5309
2886	GGGGCGT GCTTGTCTTAACTAA CAACTGCG	2531	GGGGCGGA G GCGACAC	5310
2889	GGGGCGG GCTTGTCTTAACTAA CAACTGCG	2532	GGGGCGGG A ACGACCG	5311
2892	GGGGCGT GCTTGTCTTAACTAA CAACTGCG	2533	GGGGCGAU A ACGACCG	5312
2898	GGGGCGC GCTTGTCTTAACTAA CAACTGCG	2534	GGACUCA G GCGAGCC	5313
2901	GGGGCGG GCTTGTCTTAACTAA CAACTGCG	2535	GGTCAGAU A ACGCGG	5314
2902	GGGGCGG GCTTGTCTTAACTAA CAACTGCG	2536	GGGGCGAU G GCGCGAC	5315
2909	AGGGAGCT GCTTGTCTTAACTAA CAACTGCG	2537	AGGGCGG A ACCUCAU	5316
2915	GGGGCGAT GCTTGTCTTAACTAA CAACTGCG	2538	GGACCGCC A AUAGAGC	5317
2921	AGGGAGCT GCTTGTCTTAACTAA CAACTGCG	2539	GGCAUCAGA G GCGAGCU	5318
2925	GGGGCGG GCTTGTCTTAACTAA CAACTGCG	2540	GGAGCGCA G GCGCGCC	5319

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2930	TGGAAGT GGTAACTACAGGA TGAATG	2541	CTTACGUC A ACCUGCA	5320
2937	GGGGGG GGTAACTACAGGA TGAATG	2542	CAACGUCA A ACCUGGC	5321
2946	GAAGTGT GGTAACTACAGGA GTTGAAG	2543	CTTCACCC G ACCGGGC	5322
2942	CTTAAAC GGTAACTACAGGA CGGGTGG	2544	CTAACGGG G GCGGTC	5323
2951	CGGGTGG GGTAACTACAGGA CGGGTGG	2545	GTACGGG G GTCGGAG	5324
2961	ACGATTC GGTAACTACAGGA TCTCCAA	2546	TTTTGAGA A AGACGGU	5325
2963	CTGAAAT GGTAACTACAGGA GTTGTGC	2547	GGAGGAC A AUCCGCG	5326
2965	TGGAAGT GGTAACTACAGGA ATTTTCT	2548	AGAAACAU G GCGTGC	5327
2967	TTGGGAC GGTAACTACAGGA GCAATTC	2549	GAACAUGC G GUCCAAA	5328
2970	GGTTCG GGTAACTACAGGA GCGATAT	2550	CTATTTTG G GAAATTC	5329
2974	AAAGATG GGTAACTACAGGA TTTTGACG	2551	CGGCGAA A ACUCUUG	5330
2984	GGAAAGC GGTAACTACAGGA CGCAAAA	2552	UCUUCGG G GUCCUGG	5331
2989	TCAUCGG GGTAACTACAGGA AGGGCG	2553	GGAGGAGU G GCGGGUGA	5332
2992	ACGUAGC GGTAACTACAGGA CGAAGAC	2554	GGUUCGG G GTCGGAU	5333
2998	TGAGACG GGTAACTACAGGA TTATGCG	2555	GGCGUGAA G GUCGACA	5334
3000	GGTGGAC GGTAACTACAGGA ACTTCGG	2556	GGTGAAGU G GUACAGC	5335
3003	TAATGTT GGTAACTACAGGA GACACTTC	2557	GAAGUGUC A ACAGCUG	5336
3006	GGAAAGC GGTAACTACAGGA TGTGAC	2558	GGTCGACA G GCGGTTU	5337
3010	GGTAAAC GGTAACTACAGGA AATTCGG	2559	TAAGGTT G GUUCUGG	5338
3018	CTTCAAT GGTAACTACAGGA CGTAAAC	2560	GUUCUGG A AUUGCAG	5339
3022	TCAGGGT GGTAACTACAGGA AATTCGG	2561	CGGGAUU G GAGGUGA	5340
3026	CTTCTCA GGTAACTACAGGA CTAAATT	2562	AUUUCAG G GUGAACAG	5341
3030	GAATGTC GGTAACTACAGGA TCAATTC	2563	GGAGGUGA A ACATTC	5342
3033	CTGAGCG GGTAACTACAGGA TTTTGCG	2564	GGAGAACG G GCGTCAG	5343
3041	CAACGGT GGTAACTACAGGA CGGGAGG	2565	GGTCCAG A ACAGTTTG	5344
3044	GTGCGAC GGTAACTACAGGA GGTGAA	2566	GGAGGAG G GTCGGAC	5345
3046	TTGGTAC GGTAACTACAGGA ACCGTTG	2567	TAAGAGG G GUGACCA	5346
3048	GTGGTGG GGTAACTACAGGA AGACCTT	2568	GGGGGGU G GCACAAC	5347
3050	ATTTGGT GGTAACTACAGGA GCAACAG	2569	GGGGGG A ACCAACAU	5348
3054	GTAGAAGT GGTAACTACAGGA TGGTAA	2570	GGGACCA A ACAUCUAC	5349
3056	TTGTAAGT GGTAACTACAGGA GTCGGTC	2571	GGACAAAC A AUUCACAA	5350

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3060	GATGTTG GCTGCTTACAAAGA AGATGTTG	2572	CAACAUU A ACAAGAU	5351
3055	AGAGATG GCTGCTTACAAAGA CTGTTAGA	2573	UUCUCAAG A AUCCUCU	5352
3073	UCUUCG GCTGCTTACAAAGA AGATGAT	2574	AUCUCCU G GUCGAGG	5353
3076	ACGCGCG GCTGCTTACAAAGA AGATGAT	2575	GUUCGCU G GCGGGGU	5354
3080	CGGAAAC GCTGCTTACAAAGA CTGTTAGA	2576	UCGGGAG G GCGUACAG	5355
3082	ACUATTA GCTGCTTACAAAGA GCTGTTAG	2577	UCGAGAC G GUACGGU	5356
3084	AAACCTT GCTGCTTACAAAGA AGCGCGC	2578	GCACAGU A AGACGUU	5357
3088	CGGAAAC GCTGCTTACAAAGA CTGTTAGC	2579	GUUCUAV G GUUCUACG	5358
3093	ACAUAGT GCTGCTTACAAAGA GCTGTTAG	2580	CACTTTC A AGCCAUU	5359
3095	ACATAG GCTGCTTACAAAGA GCTGTTAG	2581	UCGUUCAC G GCAAGGU	5360
3097	GUACAUAT GCTGCTTACAAAGA GCTGTTAA	2582	UUCUACG A AGUCUUC	5361
3099	CGACACG GCTGCTTACAAAGA AGATGTTA	2583	UCATGCAU G GACGGUG	5362
3101	TCGAGAC GCTGCTTACAAAGA AGATGTTG	2584	ACGCAUU G GUUCGCA	5363
3103	GCTGCTA GCTGCTTACAAAGA AGATGTC	2585	GUAGGGU G GCGGAGC	5364
3106	GGAACTT GCTGCTTACAAAGA AGATGAA	2586	UCGUUCAT G GCACTTC	5365
3109	ATGCTAC GCTGCTTACAAAGA AGATGAC	2587	GUUCGAGA G GUCCAU	5366
3115	GATGTTG GCTGCTTACAAAGA GCGAGCTG	2588	CAGTCUCC A AUUCUAC	5367
3120	TTGCTAT GCTGCTTACAAAGA GAAATAGG	2589	UCGATTC A AUCAAGAA	5368
3124	AAUUCAG GCTGCTTACAAAGA TGAATGAA	2590	UUUCAUCA G GCAAGUU	5369
3128	TTUUAAC GCTGCTTACAAAGA TTCTTAT	2591	AUUCGAA G GUUCGAA	5370
3138	TGTTGAGT GCTGCTTACAAAGA TTTCUAA	2592	UUCGAGAA A ACCCCACA	5371
3143	AAATATG GCTGCTTACAAAGA GCGTTT	2593	AGAACCC A ACAUUU	5372
3145	GCTGCTT GCTGCTTACAAAGA GCGGGTT	2594	AACCCAC A AUUUC	5373
3154	UCAACCG GCTGCTTACAAAGA AGGAAAA	2595	UUCUUCU G GCGCACA	5374
3156	GATGAGC GCTGCTTACAAAGA GCGGGAA	2596	UUCUUCG G GCGCAUC	5375
3158	CAUATTA GCTGCTTACAAAGA GCGAGA	2597	UCGUUCG G GUACUUC	5376
3161	UCAUAGAT GCTGCTTACAAAGA GACGCGA	2598	UCGCGGUC A AUUCUCA	5377
3168	GGAGGTT GCTGCTTACAAAGA GAGAAAG	2599	CAUCUUG A ACACGCC	5378
3170	GAGGCCG GCTGCTTACAAAGA GCGAGAGA	2600	UCGUUCG A AGGGCUC	5379
3173	AGGAAAG GCTGCTTACAAAGA CGTGTAG	2601	CGACACG G GCGUCCU	5380
3183	GGAGTACG GCTGCTTACAAAGA AGAGGGG	2602	UCGCUUC G GCACTCC	5381

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3156	CATGGAT GGTAGTAAAGA AATGAGG	2603	GTTTGGG A ATGCCAC	5382
3191	TTCAGGAT GGTAGTAAAGA GAACTAA	2604	GGUACUCC A AUCCGAA	5383
3200	GGGAGGAG GGTAGTAAAGA TTTAAGA	2605	UUCGGAA G GTCGGAA	5384
3207	CCCTGCGT GGTAGTAAAGA TCTGGCT	2606	AGCTTAAAGA A ACCGAGG	5385
3209	ATGCGG GGTAGTAAAGA GGTCTTG	2607	GGAAAGAAC G GCGGGAAU	5386
3215	AGGGACAT GGTAGTAAAGA CGCGCGT	2608	ACCGAGGG A AUGUCGU	5387
3217	CCAGGAA GGTAGTAAAGA Apyuypu	2609	GGGGGAAU G GTCGGAA	5388
3220	CCCGAG GGTAGTAAAGA GAAATGC	2610	GGGAAGUC G GCGGGGG	5389
3227	CCUCCG GGTAGTAAAGA GCGAGCG	2611	GGTTGGG G GCGAAAGG	5390
3234	GGGGGG GGTAGTAAAGA CTTGGG	2612	GGGAAAG G GCGGGCC	5391
3236	GGGGGG GGTAGTAAAGA GGGTTGG	2613	GGAGGGG G GCGGCCG	5392
3239	GGGGGG GGTAGTAAAGA GGGATTT	2614	GGGGGG G GTCGGCC	5393
3243	CAGGGGC GGTAGTAAAGA GGGGGGG	2615	GGGGGGG G GCGCUCUG	5394
3250	GGGGGG GGTAGTAAAGA GGGGGGG	2616	GGGGGG G GCGGGGG	5395
3260	GGGAGGC GGTAGTAAAGA GGGGGGG	2617	GGGGGG G GCGGGCA	5396
3263	GGGGGG GGTAGTAAAGA GGGGGGG	2618	GGGGGG G GCGGGGG	5397
3265	GGGGGG GGTAGTAAAGA GGGGGGG	2619	GGGGGG G GCGGGCC	5398
3268	ACGGGG GGTAGTAAAGA GGGGGGG	2620	GGGGGG G GCGGGGU	5399
3271	GGGGGG GGTAGTAAAGA GGGGGGG	2621	GGGGGG G GCGGGGG	5400
3274	GTTGGG GGTAGTAAAGA GGGGGGG	2622	GGGGGG G GCGGGGG	5401
3276	GGGGGG GGTAGTAAAGA AAGGGAC	2623	GGGGGG G GCGGGAA	5402
3279	GGGGGG GGTAGTAAAGA GGGGGGG	2624	GGGGGG G ACGGGCA	5403
3284	GGGGGG GGTAGTAAAGA TTTGGG	2625	GGGGGG G GCGGGGG	5404
3286	GGGGGG GGTAGTAAAGA GGGGGGG	2626	GGGGGG G AAGGGGG	5405
3292	GGGGGG GGTAGTAAAGA ACGGGAC	2627	GGGGGG G GCGGGAC	5406
3293	GGGGGG GGTAGTAAAGA TTTGGG	2628	GGGGGG G GCGGGAC	5407
3302	TGTGGAT GGTAGTAAAGA GGGGGGG	2629	GGGGGG G ACGGGCA	5408
3307	CACGGT GGTAGTAAAGA GGGGGGG	2630	GGGGGG G ACGGGUG	5409
3309	GACGGT GGTAGTAAAGA GGGGGGG	2631	GGGGGG G ACGGGUG	5410
3312	GGTGGAT GGTAGTAAAGA GGGGGGG	2632	GGGGGG G GGGGACC	5411
3314	TGGTGG GGTAGTAAAGA ACGGGGG	2633	GGGGGG G GGGGCUA	5412

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3317	ACCAAGT GCTTACCTTACAAAGA GACAGGAG	2634	ACCGGTC A ACCAUAGU	5413
3321	TGGCAAGT GCTTACCTTACAAAGA AGCTGACA	2635	TCGCACTU A ACCUGCA	5414
3323	ACGGGAA GCTTACCTTACAAAGA GTCATGAA	2636	TCACCUAC G GUCAUCU	5415
3325	TGGAGTGGT GCTTACCTTACAAAGA AGCTGAGT	2637	ACUACAU G GGCACUCC	5416
3328	CAAGAACT GCTTACCTTACAAAGA GCTGCTAA	2638	UACGUGTC A ACTGCGG	5417
3337	TGAGTGGC GCTTACCTTACAAAGA GCTGAGAG	2639	CTGCGGAG G GUCAUCU	5418
3340	TCCGAACT GCTTACCTTACAAAGA GAGAGAG	2640	CTGGGGTC A ACTGAGGA	5419
3347	TGGAGTGGT GCTTACCTTACAAAGA GCTGAGT	2641	CACTGAGS A ACAGGCCA	5420
3350	GTCGAGTC GCTTACCTTACAAAGA GCTGCTAA	2642	UCAGGAGA G GCCCCAGC	5421
3356	AGCTGAGT GCTTACCTTACAAAGA GCTGAGT	2643	CACTGAGS A ACAGGCCU	5422
3358	TGAGTGGC GCTTACCTTACAAAGA GCTGAGAG	2644	GTCGAGAC G GAGCGUA	5423
3361	GACGAGC GCTTACCTTACAAAGA GCTGAGAG	2645	CACTGAGA G GCGAGAC	5424
3365	CTGGGGTC GCTTACCTTACAAAGA GCTGCTAA	2646	TCAGGAGA G GAGGGAG	5425
3372	CGAGGAGC GCTTACCTTACAAAGA GCTGCTAA	2647	AGCTGAGA G GCGCGCG	5426
3383	AGCTGAGT GCTTACCTTACAAAGA GCTGCTAA	2648	TCCTGAGS A AGGAGCU	5427
3386	GTCGAGTC GCTTACCTTACAAAGA GCTGCTAA	2649	TCAGGAGS A AGCTGAG	5428
3388	CAGGAGAG GCTTACCTTACAAAGA GCTGCTAA	2650	TCAGGAGAC G GCGAGTC	5429
3392	ACGGGAA GCTTACCTTACAAAGA GCTGCTAA	2651	TCAGGAGS A ACTGCTT	5430
3395	TCGGGGTC GCTTACCTTACAAAGA AGCTGAG	2652	TCAGGAGU G GCGGAGA	5431
3404	CTGGGGTC GCTTACCTTACAAAGA GCTGCTAA	2653	TCCTGAGC G GCGCAGC	5432
3407	TGAGTGGC GCTTACCTTACAAAGA GCTGCTAA	2654	UAGAGGCG G GAGCCAA	5433
3410	CGCTGAGT GCTTACCTTACAAAGA GCTGCTAA	2655	AGGGGCA G GCGAACG	5434
3414	TGGGGGGT GCTTACCTTACAAAGA GCTGCTAA	2656	TCAGGAGA A AGCGCA	5435
3419	CGCTGAGT GCTTACCTTACAAAGA GCTGCTAA	2657	TCAGGAGU G GCGAGTC	5436
3421	AGGGGAA GCTTACCTTACAAAGA GCTGCTAA	2658	AACTGGGGT A ACTGCCCC	5437
3424	CTGGGGTC GCTTACCTTACAAAGA GCTGCTAA	2659	TCAGGAGT G GCGCGAG	5438
3424	CTGGGGTC GCTTACCTTACAAAGA GCTGCTAA	2660	GGCTGAGS A ACUGCAAG	5439
3440	AGGAGGAT GCTTACCTTACAAAGA GCTGCTAA	2661	ACUCAAG A ACCACCU	5440
3443	TGGAGTGGT GCTTACCTTACAAAGA GCTGCTAA	2662	UCAAGAC A ACCUGGA	5441
3450	CTGGGGTC GCTTACCTTACAAAGA GCTGCTAA	2663	CAUCGUG A ACTGAGGG	5442
3454	GTGGGGAT GCTTACCTTACAAAGA GCTGCTAA	2664	UAGGAGUG A AUGGCAC	5443

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3457	CGGTTTGTGTTTAAAGAATCTT	2655	GGTTTAAAGAATCTT	5444
3460	GGGTTTGTGTTTAAAGAATCTT	2656	GGGTTTGTGTTTAAAGAATCTT	5445
3464	CTTCTTGTGTTTAAAGAATCTT	2657	GGGTTTGTGTTTAAAGAATCTT	5446
3468	GGGGGGGGGCTGTTTAAAGAATCTT	2658	GGGGGGGGGCTGTTTAAAGAATCTT	5447
3471	GGGGGGGGGCTGTTTAAAGAATCTT	2659	GGGGGGGGGCTGTTTAAAGAATCTT	5448
3476	CTTCTTGTGTTTAAAGAATCTT	2660	ATGGTAAAGGCTGTTTAAAGAATCTT	5449
3483	GGGGGGGGCTGTTTAAAGAATCTT	2671	GGGGGGGGCTGTTTAAAGAATCTT	5450
3487	GGGGGGGGCTGTTTAAAGAATCTT	2672	GAGGAGGAGAATCTT	5451
3489	CTGTTTGTGTTTAAAGAATCTT	2673	GGGGGGGGCTGTTTAAAGAATCTT	5452
3492	GGGGGGGGCTGTTTAAAGAATCTT	2674	GGGGGGGGCTGTTTAAAGAATCTT	5453
3495	GGGGGGGGCTGTTTAAAGAATCTT	2675	GGGGGGGGCTGTTTAAAGAATCTT	5454
3501	GGGGGGGGCTGTTTAAAGAATCTT	2676	GGGGGGGGCTGTTTAAAGAATCTT	5455
3504	GGGGGGGGCTGTTTAAAGAATCTT	2677	GGGGGGGGCTGTTTAAAGAATCTT	5456
3506	GGGGGGGGCTGTTTAAAGAATCTT	2678	GGGGGGGGCTGTTTAAAGAATCTT	5457
3511	GGGGGGGGCTGTTTAAAGAATCTT	2679	GGGGGGGGCTGTTTAAAGAATCTT	5458
3516	GGGGGGGGCTGTTTAAAGAATCTT	2680	GGGGGGGGCTGTTTAAAGAATCTT	5459
3519	GGGGGGGGCTGTTTAAAGAATCTT	2681	GGGGGGGGCTGTTTAAAGAATCTT	5460
3535	GGGGGGGGCTGTTTAAAGAATCTT	2682	GGGGGGGGCTGTTTAAAGAATCTT	5461
3538	GGGGGGGGCTGTTTAAAGAATCTT	2683	GGGGGGGGCTGTTTAAAGAATCTT	5462
3542	GGGGGGGGCTGTTTAAAGAATCTT	2684	GGGGGGGGCTGTTTAAAGAATCTT	5463
3544	GGGGGGGGCTGTTTAAAGAATCTT	2685	GGGGGGGGCTGTTTAAAGAATCTT	5464
3550	GGGGGGGGCTGTTTAAAGAATCTT	2686	GGGGGGGGCTGTTTAAAGAATCTT	5465
3554	GGGGGGGGCTGTTTAAAGAATCTT	2687	GGGGGGGGCTGTTTAAAGAATCTT	5466
3556	GGGGGGGGCTGTTTAAAGAATCTT	2688	GGGGGGGGCTGTTTAAAGAATCTT	5467
3559	GGGGGGGGCTGTTTAAAGAATCTT	2689	GGGGGGGGCTGTTTAAAGAATCTT	5468
3566	GGGGGGGGCTGTTTAAAGAATCTT	2690	GGGGGGGGCTGTTTAAAGAATCTT	5469
3573	GGGGGGGGCTGTTTAAAGAATCTT	2691	GGGGGGGGCTGTTTAAAGAATCTT	5470
3579	GGGGGGGGCTGTTTAAAGAATCTT	2692	GGGGGGGGCTGTTTAAAGAATCTT	5471
3583	GGGGGGGGCTGTTTAAAGAATCTT	2693	GGGGGGGGCTGTTTAAAGAATCTT	5472
3585	GGGGGGGGCTGTTTAAAGAATCTT	2694	GGGGGGGGCTGTTTAAAGAATCTT	5473
3590	GGGGGGGGCTGTTTAAAGAATCTT	2695	GGGGGGGGCTGTTTAAAGAATCTT	5474

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3596	ATGCTGTC GGTGATTAATTA CTTGTTAA	2696	TTGTTTAA G GCGGGCAU	5475
3597	GGTAAAT GGTGATTAATTA AGGGCTTG	2697	TTGTTTAA G GCGGGCAU	5476
3602	GGTAAAT GGTGATTAATTA GAAAGTTT	2698	AGGCTGTC A AUGGCGG	5477
3604	AGGCTGTC GGTGATTAATTA ATGAAAGT	2699	GGTAAAT G GCGGGCAU	5478
3609	GGTAAAT GGTGATTAATTA GAAAGT	2700	GGTAAAT G GCGGGCAU	5479
3615	CACTGAC GGTGATTAATTA CTTGAGCT	2701	GGTAAAT G GCGGGCAU	5480
3621	GGTAAAT GGTGATTAATTA GAAAGT	2702	AGGCTGTC G GCGGGCAU	5481
3622	AGGCTGTC GGTGATTAATTA ATGAAAGT	2703	GGTAAAT G GCGGGCAU	5482
3628	GGTAAAT GGTGATTAATTA GAAAGT	2704	AGGCTGTC G GCGGGCAU	5483
3634	GGTAAAT GGTGATTAATTA CTTGAGCT	2705	GGTAAAT G GCGGGCAU	5484
3640	AGGCTGTC GGTGATTAATTA TCAAGCTT	2706	AGGCTGTC G GCGGGCAU	5485
3644	GGGACAC GGTGATTAATTA TCAAGCTT	2707	GGTAAAT G GCGGGCAU	5486
3645	GGTAAAT GGTGATTAATTA ATGAAAGT	2708	GGGACAC G GCGGGCAU	5487
3651	GGTAAAT GGTGATTAATTA TCAAGCTT	2709	AGGCTGTC G GCGGGCAU	5488
3658	CACTGAC GGTGATTAATTA CTTGAGCT	2710	AGGCTGTC G GCGGGCAU	5489
3663	GGGACAC GGTGATTAATTA TCAAGCTT	2711	AGGCTGTC G GCGGGCAU	5490
3665	TTGTTTAA GGTGATTAATTA ATGAAAGT	2712	GGTAAAT G GCGGGCAU	5491
3670	AGGCTGTC GGTGATTAATTA TCAAGCTT	2713	AGGCTGTC G GCGGGCAU	5492
3672	GGGACAC GGTGATTAATTA GTCGTTAA	2714	GGTAAAT A ATGCGC	5493
3674	GGGACAC GGTGATTAATTA GTCGTTAA	2715	GGTAAAT A ATGCGC	5494
3676	AGGCTGTC GGTGATTAATTA ATGAAAGT	2716	GGTAAAT G GCGGGCAU	5495
3681	GGGACAC GGTGATTAATTA ATGAAAGT	2717	GGTAAAT G GCGGGCAU	5496
3687	GGGACAC GGTGATTAATTA ATGAAAGT	2718	AGGCTGTC A ATGCGC	5497
3695	CAGCTGTC GGTGATTAATTA GGGGAACT	2719	AGGCTGTC A ATGCGC	5498
3699	GGGACAC GGTGATTAATTA CTTGAGCT	2720	GGTAAAT G GCGGGCAU	5499
3703	GGGACAC GGTGATTAATTA CAGCTGTC	2721	AGGCTGTC G GCGGGCAU	5500
3705	AGGCTGTC GGTGATTAATTA GGGGAACT	2722	AGGCTGTC G GCGGGCAU	5501
3710	GGGACAC GGTGATTAATTA GGGGAACT	2723	GGGACAC G GCGGGCAU	5502
3715	GGGACAC GGTGATTAATTA GGGGAACT	2724	AGGCTGTC A ATGCGC	5503
3723	AGGCTGTC GGTGATTAATTA CTTGAGCT	2725	AGGCTGTC G GCGGGCAU	5504
3727	GGGACAC GGTGATTAATTA TGGGCTTC	2726	GGGACAC G GCGGGCAU	5505

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3737	CTTGCTGT GCTTACAACTA GAGGAA	2727	UUCUUCU A ACCAGAG	5506
3744	AGCGGGCG GCTTACAACTA TCTTCTTG	2728	UACGAGA G GCGCCACU	5507
3749	CTTGCTGT GCTTACAACTA CCGCTTCTG	2729	GGAGCTTG G GCTTCAC	5508
3755	TGGGCGT GCTTACAACTA GAGGAA	2730	GGGGTTC A AAGCTTA	5509
3762	TCTTAACT GCTTACAACTA GAGGAA	2731	CAUCGCC A ACAUAGGA	5510
3764	ATTCTTAAT GCTTACAACTA GAGGAA	2732	GUUCGAC A AUAGGAU	5511
3770	TGACAT GCTTACAACTA TCTTCTGT	2733	ACAUAGGA A AUAGGCA	5512
3773	GGATGAC GCTTACAACTA TATCTTA	2734	UAGGAAUA G GTCGACCC	5513
3777	CTGGGAT GCTTACAACTA GAGGAA	2735	AATAGUCC A AUCCCG	5514
3785	TTGGGAT GCTTACAACTA CTGGGAT	2736	AUCCTCTG A AUCCGCC	5515
3789	ACAGTGG GCTTACAACTA GAGGAA	2737	CCAGAGTC G GCCAATGU	5516
3792	TTGGGAT GCTTACAACTA GAGGAA	2738	GAUUCAC A AUUGUCA	5517
3795	GGGTGAA GCTTACAACTA AATCTTAA	2739	UUGGCAAU G GUUCACCC	5518
3799	CTGGGGG GCTTACAACTA GAGGAA	2740	CAUUGUUC A ACCGCG	5519
3806	GGGAAAC GCTTACAACTA GAGGAA	2741	CAUCCTTC G GCGCGCC	5520
3811	AGGAACT GCTTACAACTA GAGGAA	2742	CTGGGCTG G GCGCCCGU	5521
3821	TGAGGAG GCTTACAACTA AAGGAA	2743	CGUUCUUG G GCGCCCA	5522
3828	GGGGGGT GCTTACAACTA GAGGAA	2744	UCCUUAAC A AGGGAC	5523
3834	TTGATGG GCTTACAACTA GAGGAA	2745	CTACCTT A ACCAGCA	5524
3837	ACGGGGT GCTTACAACTA GAGGAA	2746	GGCCGAC A ACCAGGU	5525
3843	GGTTCAC GCTTACAACTA GAGGAA	2747	UCAUCAC G GUAGAC	5526
3849	CTGAGGT GCTTACAACTA GAGGAA	2748	AGGUGAG A ACCUGAG	5527
3861	CTGAGGT GCTTACAACTA GAGGAA	2749	UCAUAAAG A ACCUGGG	5528
3870	CCUAGAC GCTTACAACTA GAGGAA	2750	UCAUCAC G GUAGGG	5529
3872	CTGAAAT GCTTACAACTA TCTTAA	2751	CUCCGGAA A AUUGGAG	5530
3886	TTGGCTAC GCTTACAACTA TCTTAA	2752	AUUUGGA G GUACCAA	5531
3889	CTTCTCTT GCTTACAACTA GAGGAA	2753	UUGGAGG A ACCAAGG	5532
3892	GGGGGGT GCTTACAACTA GAGGAA	2754	GAUCAAGG G GUUCGCG	5533
3904	CAAGGAC GCTTACAACTA ACCTTGG	2755	UCAAGGUG G GUUCGCG	5534
3905	TATAGGG GCTTACAACTA ACACCTT	2756	AAAGGUG G GCCUGUA	5535
	CTCTCTAC GCTTACAACTA AGGGACAA	2757	UGUGCCU G GUACACAG	5536

3907	GGCTGGTG GGTAGTCAAGA AAAGGCA	2753	GGCTGGTG A ACACAGGCG	5537
3909	TGCGCTGT GGTAGTCAAGA GTCAGG	2759	GGCTGGTG A ACAGGGGA	5538
3913	GTCGTCG GGTAGTCAAGA CTCCTTA	2760	GGCTGGTG G CGGAGGAC	5539
3919	TGCGCTGT GGTAGTCAAGA CTCGGG	2761	GGCTGGTG A ATCTGGCA	5540
3924	GGAGGGTG GGTAGTCAAGA AGGTCCT	2762	GGCTGGTG G GCACTGG	5541
3926	ATGAGGT GGTAGTCAAGA GGAGGTC	2763	GGCTGGTG A ACCUGGAG	5542
3932	ACCCGAT GGTAGTCAAGA CTCGGTC	2764	GGCTGGTG A AUAGGGGU	5543
3933	ACGGGAC GGTAGTCAAGA CGGCTCG	2765	GGCTGGTG G GTCCTGGU	5544
3944	TGACGGAT GGTAGTCAAGA AGGAGCT	2766	GGCTGGTG G GUGGGUCA	5545
3948	AATTTGAC GGTAGTCAAGA CGATAGG	2767	GGCTGGTG G GUCAAAAU	5546
3953	CCCGGAT GGTAGTCAAGA TTATCAA	2768	GGCTGGTG A AUUAGGG	5547
3964	CAAGGAA GGTAGTCAAGA CGGGGG	2769	GGCTGGTG G CTGGGGG	5548
3966	CGGAGG GGTAGTCAAGA ATTTCTT	2770	GGCTGGTG G GTCCTGG	5549
3969	ACCGGAT GGTAGTCAAGA AATTTTG	2771	GGCTGGTG G GTCCTGGU	5550
3975	TATTTAC GGTAGTCAAGA TCCACAA	2772	GGCTGGGA G GUAAAUA	5551
3980	TGCTGAT GGTAGTCAAGA TTTCCTG	2773	GGAGGUAA A AGACUGAA	5552
3982	TATCGAT GGTAGTCAAGA ATTTCAT	2774	GGUAAA A ACUGAAUA	5553
3987	TCTATAT GGTAGTCAAGA TCACTAT	2775	AAUACUSA A AUAUUGA	5554
3989	ACTATAT GGTAGTCAAGA ATTACAA	2776	UACGAAU A AUAGGU	5555
3991	AAACCTAT GGTAGTCAAGA ATTTCA	2777	CUGAAAU A AUGAGUU	5556
3995	TAAAGAC GGTAGTCAAGA TCAATAT	2778	AUAAUAGA G GUUUTUCA	5557
4003	TTCAAAC GGTAGTCAAGA TGGAAAC	2779	GGTUUCA G GGGGGAA	5558

Seq1 = TERT (*Homo sapiens* telomerase reverse transcriptase (TERT) mRNA, 4015 bp), Nakamura *et al.*, *Science* 277 (5328), 955-959 (1997)

Cut Site = R/Y (Purine/Pyrimidine)

Stem Length = 8 . Core Sequence = GGCTAGCTAACACGA

Table VII: Anti-TERT HH and G-Cleaver Ribozymes

Alias	Ribozyme Sequence	Seq ID Number	Length (nt)
HH			
TEFT-1051	AGGAGUA CUGAUGAGGCCGUUAGGCCGAA AGGAAGU	5559	36
TEFT-1053	UGAGGAG CUGAUGAGGCCGUUAGGCCGAA AGAGGAA	5560	36
TEFT-1918	UGAACGCG CUGAUGAGGCCGUUAGGCCGAA AGUCUGG	5561	36
TEFT-2383	GAGCCAC CUGAUGAGGCCGUUAGGCCGAA AACUGUC	5562	36
TEFT-2485	UGAACGCG CUGAUGAGGCCGUUAGGCCGAA AGGAAGA	5563	36
TEFT-2566	GCGUGGA CUGAUGAGGCCGUUAGGCCGAA AGGAUGG	5564	36
TEFT-3181	AGJAGCA CUGAUGAGGCCGUUAGGCCGAA AGGGAGG	5565	36
TEFT-3691	CJUGGG CUGAUGAGGCCGUUAGGCCGAA AAGUGAA	5566	36
TEFT-3758	AUGUGGG CUGAUGAGGCCGUUAGGCCGAA AGUGGAA	5567	36
TEFT-3794	GGJGAAC CUGAUGAGGCCGUUAGGCCGAA AJGGCGA	5568	36
G-Cleaver			
TERT-757	UJGGG UGAUGGCAUGCACUAUGCGCG AACGGCAGAC	4332	36
TEFT-2353	UCJGU UGAUGGCAUGCACUAUGCGCG AAGGUAGAGA	4471	36
TEFT-3795	GUGAA UGAUGGCAUGCACUAUGCGCG AAUGGCGAAU	4594	36